EnviroTrac
Environmental Services

February 28, 2011

Mr. Phil Cole
Bureau of Case Management
New Jersey Department of Environmental Protection
401 East State Street
PO Box 28
Trenton, New Jersey 08625-0028

RE: Vapor Intrusion/ Remedial Investigation/ Receptor Evaluation
Hess Corporation – Port Reading Refinery
750 Cliff Road
Woodbridge, Middlesex County, New Jersey
PI 006148

Dear Mr. Cole:

The Hess Corporation – Port Reading Refinery (HC-PR) submits with this letter the Receptor Evaluation for the Port Reading Refinery. This report presents the completed RE Form and all associated documents.

Should you have any questions or comments regarding the information submitted in this report, please do not hesitate to contact me at 908-757-1900. Should you have any questions or comments relating to the project, please contact Steve Freeman of Hess Corporation at 713-609-5955 or Howard S. Goldman of Hess Corporation at 732-750-7735.

Sincerely,
EnviroTrac, Ltd.

William Groeling
Senior Project Manager
NJDEP Certification #0022589

cc: John M. Mitch – Clerk, Woodbridge Township
Phillip Bujalski – Health Department of Woodbridge Township
Mr. Barry Tornick – US EPA Region II
Howard Goldman – Hess Corporation (electronic)
Steve Freeman – Hess Corporation (electronic)
Project File

New Jersey Department of Environmental Protection
Site Remediation Program

RECEPTOR EVALUATION FORM

☒ Non-LSRP (Existing Cases) ☐ LSRP ☐ Subsurface Evaluator

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: Hess Corporation - Port Reading Refinery

List all AKAs:

Street Address: 750 Cliff Road

Municipality: Woodbridge (Township, Borough or City)

County: Middlesex Zip Code: 07077

Mailing Address if different than street address: One Hess Plaza, Woodbridge, NJ

Program Interest (PI) Number(s): 006148 Case Tracking Number(s): See Attachment

The purpose of this form is to document the existence of receptors and the actions taken to protect receptors and is required unless an unrestricted remedial action is completed before the due date of the **initial** Receptor Evaluation. At the time of the initial or interim Receptor Evaluation the Department acknowledges that the remedial investigation may not be fully complete. The Receptor Evaluation should be completed in accordance with requirements and timeframes in the Technical Requirements for Site Remediation and is an ongoing process as the extent of contamination is defined. The Receptor Evaluation should be submitted within the Mandatory Timeframes.

☒ Initial Submission ☐ Interim Submission

☐ No Change (if no change, indicate last RE date and skip to Section G: _____)

SECTION B. ON SITE AND SURROUNDING PROPERTY USE

1. Identify any sensitive populations/uses that are currently on-site or surrounding property usage within 200 feet of the site boundary (check all that apply):

	On-site	Off-site
None of the following	☒	☐
Residences or residential property	☐	☒
Public or Private Schools grades K-12	☐	☐
Child care centers	☐	☐
Public parks, playgrounds or other recreation areas	☐	☐
Other sensitive population use(s) Explain _____.	☐	☐

If any of the above applies, attach a list of addresses, facility names, type of use, and a map depicting each location relative to the site.

2. Current site uses (check all that apply):

☒ Industrial ☐ Residential ☐ Commercial ☐ Agricultural
☐ School or child care ☐ Government ☐ Park or recreational use
☐ Vacant ☐ Other _____

3. Planned future site uses and offsite use within 200 ft of site boundary (check all that apply):

☒ Industrial ☒ Residential ☐ Commercial ☐ Agricultural
☐ School or child care ☐ Government ☐ Park or recreational use
☐ Vacant ☐ Other _____

Provide a map depicting the location of the proposed changes in land use.

☒ Initial Submission ☐ Interim Submission

☐ No Change (if no change, indicate last RE date and skip to Section G: _____)

SECTION C. DESCRIPTION OF CONTAMINATION

1. Identify if any of the following exist at the site (check all that apply):
   - ☒ Free product [N.J.A.C. 7:26E-1.8]
   - ☒ Residual product [N.J.A.C. 7:26E-1.8]
   - ☒ Other high concentration source materials not identified above (e.g., buried drums, containers, unsecured friable asbestos)

   Explain See Attachment

2. If this evaluation is submitted with a technical document that includes this information, proceed to Section D. Otherwise attach a brief summary of all currently available data and information to be included in the site investigation or remedial investigation report.

   ☒ Initial Submission ☐ Interim Submission
   ☐ No Change (if no change, indicate last RE date and skip to Section G: _____)

SECTION D. GROUND WATER USE

1. The requirement for ground water sampling has been triggered. If "No," proceed to Section F..... ☒ Yes ☐ No
2. Ground water is contaminated above the Ground Water Remediation Standards [N.J.A.C.7:9C]..... ☒ Yes ☐ No

   Or ☐ Awaiting laboratory data with the expected due date: _____

   If "Yes," provide the date that the laboratory data were available and contamination exists above the Ground Water Remediation Standards. Date 01/19/2011

   If "No," or awaiting laboratory data proceed to Section F.
3. Identify if any of the following conditions exist based on the well search [N.J.A.C.7:26E-1.17(a)] (check all that apply):
   - ☐ Potable wells located within 1000 feet from the downgradient edge of the currently known extent of contamination.
   - ☐ Potable well located 250 feet upgradient or 500 feet side gradient of the currently known extent of contamination.
   - ☐ Ground water contamination is located within a wellhead protection area Tier 1 or Tier 2 (WHPA). Tier: Identify if **Tier 1** ☐ or **Tier 2** ☐.
4. Complete and attach the Well Search spreadsheet.
5. Potable use wells have been identified in the well search and the area has been canvassed for additional ground water use (potable and irrigation wells, etc.). ..... ☐ Yes ☒ No
6. Potable wells and non-potable use wells were identified and ☐ potable well and /or ☐ non-potable use well sampling has been conducted. ..... ☐ Yes ☒ No
7. Contamination identified above Ground Water Remediation Standards but not suspected to be from the site (if "Yes," provide justification)..... ☐ Yes ☒ No
8. Potable wells were sampled and results were above State or Federal Drinking Water Standard. ..... ☐ Yes ☒ No

   Date _____. Or ☐ Awaiting laboratory data with the expected due date _____

   If "Yes" to #8 for potable well contamination not attributable to background follow the IEC Guidance Document at http://www.nj.gov/dep/srp/guidance/srra/iec_guidance_draft.pdf.

   IEC was abated ..... ☐ Yes ☐ No

   Date _____ NJDEP Case Manager _____
9. Receptors abated as part of mitigation (provide a brief narrative description)..... ☒ Yes ☐ No
10. Non-potable use wells were sampled and results were above GWQS.

    Date _____ Or ☐ Awaiting laboratory data and the expected due date: _____

    ☒ Initial Submission ☐ Interim Submission
    ☐ No Change (if no change, indicate last RE date and skip to Section G: _____)

SECTION E. VAPOR INTRUSION (VI)

1. Contaminants present in ground water exceed vapor intrusion ground water screening levels (see NJDEP Vapor Intrusion Guidance) that trigger a VI evaluation..... ☒ Yes ☐ No

Or ☐ Awaiting laboratory data and the expected due date: _____

Provide the date that the laboratory data was available and confirmed contamination above the Vapor Intrusion trigger levels. 09/08/2010

If "No," or awaiting laboratory data, proceed to Section F.

2. Identify and locate on scaled map any structures/sensitive populations that exist within the following distances from ground water contamination with concentrations above the Ground Water Screening Levels for Vapor Intrusion or specific threats (check all that apply):

☒ 30 feet of dissolved petroleum hydrocarbon contamination in ground water.
☒ 100 feet of any free product or any non-petroleum dissolved volatile organic ground water contamination.
☐ No structures exist within the specified distances
☐ Unsaturated zone contamination ☐ Methanogenic conditions
☐ Landfills on or adjacent to site ☐ Elevated soil gas or indoor vapors
☐ Elemental mercury ☐ Basement or sump contains contaminated ground water or product
☐ Other_____

3. A VI evaluation has been conducted of the structures to address threats identified ..... ☒ Yes ☐ No
4. The vapor intrusion pathway is not a concern at or adjacent to the site (if "yes", attach justification) ..... ☒ Yes ☐ No
5. Contamination identified but not suspected to be from the site (if "Yes," attach justification)..... ☐ Yes ☒ No
6. Indoor air sampling was conducted and results were above the Department's proposed vapor intrusion Rapid Action Levels..... ☐ Yes ☒ No

   Or ☐ Awaiting laboratory data

   Provide the date that the laboratory data was received and detected contamination above the proposed vapor intrusion Rapid Action Levels. _____

   If "Yes" to #6 above, required actions for contamination follow the IEC Guidance Document at http://www.nj.gov/dep/srp/guidance/srra/iec_guidance_draft.pdf.

   The IEC receptor engineering system response for receptor control was implemented for all identified structures…… ..... ☐ Yes ☐ No

   Date _____ NJDEP Case Manager _____

7. Indoor air sampling was conducted and results were above the Department's Indoor Air Screening Levels but at or below the proposed vapor intrusion Rapid Action Levels ..... ☐ Yes ☒ No

   Or ☐ Awaiting laboratory data

   If "Yes" to #7 above, required actions are:

   Vapor Concern Response Action Form notification of the exceedances of the data has been completed (date _____)..... ☐ Yes ☐ No

   A plan to mitigate and monitor the exposure has been submitted (date _____) ..... ☐ Yes ☐ No

   The mitigation response action report has been submitted (date _____)..... ☐ Yes ☐ No

8. The vapor intrusion investigation is being completed and stepping out as part of the site investigation or remedial investigation (if "No" attach justification)..... ☐ Yes ☒ No

☒ Initial Submission ☐ Interim Submission
☐ No Change (if no change, indicate last RE date and skip to Section G: _____)

SECTION F. ECOLOGICAL RECEPTORS

1. Identify any of the following conditions that exist based on the investigations conducted to date (check all that apply):

   The results of a baseline ecological evaluation [N.J.A.C.7:26E- 3.11] required that a remedial investigation of ecological receptors [N.J.A.C.7:26E-4.7] is conducted ..... ☐ Yes ☒ No

   Provide the name(s) of any surface water body on or within 200 feet of the site. Arthur Kill Ship Channel, Smith Creek

Free product or residual product is located within 100 feet from an ecological receptor. ..... ☒ Yes ☐ No

2. Available data indicates an impact on ecological receptor(s), surface water or sediment. ..... ☐ Yes ☒ No

☒ Initial Submission ☐ Interim Submission

☐ No Change (if no change, indicate last RE date and skip to Section G: _____)

SECTION G. PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION

Full Legal Name of the Person Responsible for Conducting the Remediation: Hess Corporation

Representative First Name: Steve Representative Last Name: Freeman

Title: EHS Advisor

Phone Number: (713) 609-5955 Ext: Fax:

Mailing Address: 500 Dallas Street

City/Town: Houston State: Texas Zip Code: 77002

Email Address: sfreeman@hess.com

This certification shall be signed by the person responsible for conducting the remediation who is submitting this notification in accordance with Administrative Requirements for the Remediation of Contaminated Sites rule at N.J.A.C. 7:26C-1.5(a).

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature: Date:

Name/Title: Steven Freeman/ EHS Advisor **No Changes Since Last Submittal** ☐

SECTION H. NON-LSRP SITE REMEDIATION PROFESSIONAL STATEMENT

First Name: William Last Name: Groeling

Phone Number: (908) 757-1900 Ext: Fax: (908) 757-0017

Mailing Address: 400 E Corporate Court

City/Town: South Plainfield State: NJ Zip Code: 07080

Email Address: billg@envirotrac.com

I believe that the information contained herein, and including all attached documents, is true, accurate and complete.

Signature: Date:

Name/Title: William Groeling/ Senior Project Manager **No Changes Since Last Submittal** ☐

Company Name: EnviroTrac Ltd.

Submit this form to the assigned case manager, municipal clerk and designate health department. If there is no assigned case manager, submit this form to:

Bureau of Case Assignment & Initial Notice
New Jersey Department of Environmental Protection
Site Remediation Program
401 East State Street, PO Box 434
Trenton, NJ 08625

Receptor Evaluation - Additional Information
Hess Corporation – Port Reading Refinery
750 Cliff Road
Woodbridge, NJ

Section A – Site Name and Location

An updated list of Case Numbers is presented as **Table 1**.

Section B – Onsite and Surrounding Property Use

Pursuant to N.J.A.C. 7:26E-1.7, EnviroTrac is documenting the variation from the technical requirement N.J.A.C. 7:26E-1.16. The Hess Port Reading Refinery is a large oil refinery and petroleum storage terminal Land use within 200 feet of the property boundary includes residential properties. However, the closest residence is over 800 feet from known petroleum impact. In addition, all residences are upgradient of known petroleum impact. Multiple monitoring wells are located between the known impact and the residences. These monitoring wells are sampled annually and there are no contaminants detected above the Groundwater Quality Standards in these wells.

Section C – Description of Contamination

Chemical constituents associated with petroleum refining including benzene, toluene, ethylbenzene, xylenes, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and naphthalene have been detected in the groundwater at the Site. Since detection of the chemical constituents, Hess has been completing investigative and remedial activities in accordance with the requirements of the NJDEP. Currently Hess is completing groundwater monitoring, sampling and reporting at this Site. A table presenting historical groundwater sampling results for annually sampled monitoring wells is presented as **Table 2**. A Site Location Map is presented as **Figure 1**. A Site Plan depicting the location of the monitoring wells is presented as **Figure 2**.

Please note that chemical constituents in the soil and/or groundwater are not suspected to have migrated beyond the boundaries of the Site.

Section D – Groundwater Use

No Domestic, Public Supply, Non-public, Industrial, or Irrigation wells were identified. The Well Search Spreadsheet and associated Well Search are provided in **Appendix A**.

Section E – Vapor Intrusion

An indoor air investigation was completed at the Hess Port Reading Administration Building on November 10, 2010. All results were below the NJDEP Air Screening Levels. A VI Sampling Form and Spreadsheet, Full Laboratory Deliverables Form and associated Laboratory data, and the EDD conversion table is presented in **Appendix B**. In addition, the indoor air results have been submitted to the Department of Health and Senior Services. A figure showing the air sampling locations is presented as **Figure 3**.

Section F – Ecological Receptors

Surface water and sediment sampling has been proposed for areas of Smith Creek, located to the South of the facility. A figure showing the proposed locations has been presented as **Figure 4**.

Case Inventory Document						
I. Area(s) of Concern, Receptor and Emergency Response Tracking	***Impacted Media***	***Contaminants of Concern***	***Exposure Route***	***Receptors***		***Current Status/Outcome***
				Existing	***Potential***	
AOC 1 - North Landfarm	Groundwater	VOCs, SVOCs, and Metals	Groundwater	Groundwater	None	**June 1988** - HC-PR submitted a Closure and Post Closure Plan to the NJDEP. The North Landfarm was formerly used to treat two listed hazardous waste streams, API Separator Sludge (K051) and Leaded Tank Bottoms (K052). The total volume of waste applied to the North Landfarm from 1978 until **October 24, 1985** is estimated at 21 tons. The volume of hazardous waste applied to the Landfarm during this period is estimated at 15 tons. Non-hazardous biomass was applied to the Landfarm until about 1988. The Landfarm's monitoring wells are sampled on a quarterly basis.
AOC 2 - South Landfarm	Groundwater	VOCs, SVOCs, and Metals	Groundwater	Groundwater	None	**June 1988** - HC-PR submitted a Closure and Post Closure Plan to the NJDEP. The South Landfarm was constructed in **1975** above a former surface impoundment that received oily wastewaters. The South Landfarm was formerly used to treat two listed hazardous waste streams, API Separator Sludge (K051) and Leaded Tank Bottoms (K052). The Landfarm's monitoring wells are sampled on a quarterly basis.
AOC 3 - No.1 Landfarm	Groundwater	VOCs, SVOCs, and Metals	Groundwater	Groundwater	None	**December 2007** - HC-PR requested delay of closure of the landfarm. The No. 1 Landfarm was constructed in **1985** from dredged sediments from the Authur Kill. The landfarm has was used to treat API Separator Sludge, heat exchanger bundle cleaning sludge, leaded tank bottoms, and TEL bottoms. The landfarm has not been used since **2004**. The Landfarm's monitoring wells are sampled on a quarterly basis.
AOC 4 - Dredge Spoils Area	None	VOCs	Soil	None	Soil	**October 2010** - The Dredge Spoils Area is located upgradient of AOC 3 No. 1 Landfarm. These spoils are believed to be dredged materials from the Arthur Kill shipping channel. Historical groundwater monitoring of the landfarm indicated low levels of benzene and chlorobenzene within monitoring well L1-2. Between **September 15 and October 6, 2010** HC-PR conducted a soil and groundwater investigation to identify the potential source and delineate the benzene and chlorobenzene previously detected in L1-2. A total of eight groundwater and eight soil samples were collected. The results from this investigation were submitted in the **Fourth Quarter 2010** Status Report.
AOC 5 - Aeration Basin	Soil and Groundwater	VOCs	Soil and Groundwater	Soil and Groundwater	None	**February 1987** - The Aeration Basin Area is comprised of three, synthetically lined, adjoining basins. The aeration basins are located in the southeast corner of the facility, immediately southwest of the refinery's wastewater treatment system. The total surface area of the three basins is approximately 4.1 acres, including the surrounding dike areas. HC-PR submitted an Aeration Basin Closure Plan to the NJDEP in **February 1987**. The closure plan is based on filling the basins with partially dewatered catalyst fines. Once the basins have been filled, they can be capped with one foot of soil, graded to 1%, and seeded for grass to prevent erosion. Currently, HC-PR continues to close the aeration basin in accordance with the **1987** Aeration Basin Closure Plan. Covered soil from Basin #2 is scheduled for removal **First Quarter of 2011** so that additional catalyst fines can be added to the basin. Basin #3 has been filled, capped, and seeded. HC-PR will continue to provide updates within upcoming quarterly status reports.
AOC 6 - Waste Oil UST Area	Soil and Groundwater	LNAPL, VOCs, and SVOCs	Soil and Groundwater	Soil and Groundwater	None	**1986** - HC-PR removed and excavated one (1) oily waste UST from this area of the facility. The size of the UST could not be confirmed within the Comprehensive Management Plan (CMP). This UST was utilized as temporary storage of recovered water and any potential hydrocarbons carried with the water from the adjacent AST operations. In **October 2009**, HC-PR installed five (5) temporary wells (TF-TW-1 through TF-TW-5) to a depth of approximately 10 feet below grade via the Geoprobe direct push method. These temporary wells were installed to delineate LNAPL previously detected within TF-2. Based on these results, additional groundwater delineation was conducted during the second phase of the facility groundwater delineation program. The results from this investigation were submitted during the **Fourth Quarter 2010** Status Report.

Case Inventory Document						
I. Area(s) of Concern, Receptor and Emergency Response Tracking	**Impacted Media**	**Contaminants of Concern**	**Exposure Route**	**Receptors**		**Current Status/Outcome**
				Existing	**Potential**	
AOC 7 - Colonial Pipeline	Groundwater	LNAPL, VOCs, and SVOCs	Groundwater	Groundwater	None	**May 1991** - HC-PR reported a release from the Colonial Pipeline to the NJDEP. In September 1995, a total of nine (9) monitoring wells (PL-1 through PL-9) were installed within this AOC. In **October 2009**, HC-PR installed nineteen (19) temporary wells (PL-TW-1 through PL-TW-19) to a depth of approximately 10 feet below grade via Geoprobe direct push method. These temporary wells were installed to delineate LNAPL previously detected within PL-2, PL-3R, and PL-5. Based on these results, additional groundwater delineation was conducted during the second phase of the facility groundwater delineation program. The results from this investigation were submitted during the **Fourth Quarter 2010** Status Report.
AOC 8 - Proposed Container Storage Area	Soil	VOCs, Metals, and PCBs	Soil	Soil	Groundwater	**1992** - Based on an anticipated increase in the quantity of hazardous waste potentially generated at the refinery, HC-PR decided to expand an existing hazardous waste storage facility. In support of its initial intention to expand the existing waste storage facility, HC-PR notified the NJDEP in **August 1992** of plans to conduct pre-construction soil sampling of the proposed expanded hazardous waste storage area. On **September 11, 1992**, a total of seven pre-construction soil samples were collected from AOC 8. The results indicated that cadmium, arochlor, benzene, ethylbenzene, and total xylenes exceeded the NJDEP RDCSCC or the IGWSCC, in one or more soil samples. Between S**eptember 15 and October 6, 2010**, HC-PR installed three temporary wells in the area of AOC-8. The results of this investigation were submitted in the **Fourth Quarter 2010** Status Report.
AOC 9 - Alkylation Unit	Soil	TPH-DRO and SVOCs	Soil	Soil	Groundwater	**October 1992** - The Alkylation Unit sewer system was being cleaned as part of regularly scheduled maintenance program. The maintenance program included an internal inspection of the sewer system using a remote camera. The video inspection showed that the piping was deteriorating near catch basins designated as CB-4, CB-5, and CB-6. The NJDEP was notified of a potential catch basin leak and NJDEP Case # 92-10-28-1052-59 was assigned. Soil was excavated from the area and the catch basins and piping were replaced. In **May 2007**, a leaking drain pipe was identified within the Alkylation Unit area. The drain pipe was utilized to drain sulfuric acid in the Alkylation Unit. Upon identifying the release, HC-PR repaired the drain pipe and excavated approximately 6 cubic yards of soil. The NJDEP was notified and NJDEP Case # 07-05-11-1330-47 was assigned. **Between September 15 and October 6, 2010**, HC-PR installed five temporary wells in the area of AOC-9. The results of this investigation were submitted in the **Fourth Quarter 2010** Status Report.
AOC 10 - Truck Loading Rack	Groundwater	LNAPL, VOCs, and SVOCs	Groundwater	Groundwater	None	**November 1993** - Four ground water monitoring wells were installed (TR-1 through TR-4, formerly known as MW-1 through MW-4). Historically, product has been observed within monitoring well TR-2. HC-PR has been conducting monthly gauging and monthly pumping from TR-2 and has been providing recovery information within the quarterly status reports. In **October 2009**, HC-PR installed seventeen (17) temporary wells (TR-TW-1 through TR-TW-17). These temporary wells were installed to delineate LNAPL previously detected within TR-2. Based on these results, two (2) additional monitoring wells (TR-5 and TR-6) were installed on **October 7, 2010**.
AOC 11 - Administration Building	Soil and Groundwater	VOCs, cVOCs, SVOCs, and Metals	Soil and Groundwater	Soil and Groundwater	None	**September 1990** - Four underground storage tanks used to store heating oil were removed from the refinery property. Three of these USTs were located adjacent to the Administration Building. Following the removal of the USTs, petroleum stained soil and petroleum odors were observed in two of the three excavations. The NJDEP was notified and the case was assigned number 90-08-29-1617. In response, groundwater monitoring wells were installed around the Administration Building in **1991**. In **October 2009**, HC-PR installed ten (10) temporary wells (AD-TW-1 through AD-TW-10). Based on these results, additional groundwater delineation was conducted during the second phase of the facility groundwater delineation program. The results from this investigation will be submitted during the **Fourth Quarter 2010** Status Report. On **Novemember 10-11, 2010**, an indoor air investigation was performed. All air samples were below NJDEP standard.
AOC 12 - Smith Creek	None	VOCs, SVOCs, and Metals	Surface Water	None	Surface Water and Sediments	**October 30, 1969** - A tank failure occurred at the facility and approximately eight million gallons of crude oil was released. While the majority of the volume was contained and recovered within the bermed area, a seep in the berm allowed an undetermined amount of oil to flow into the retention basin and subsequently into Smith Creek. Crude oil was identified within Smith Creek before the creek was bermed and remediated. HC-PR proposes to collect twelve (12) surface water and twenty-four (24) sediment samples from Smith Creek and the detention pond.

Case Inventory Document						
I. Area(s) of Concern, Receptor and Emergency Response Tracking	***Impacted Media***	***Contaminants of Concern***	***Exposure Route***	***Receptors***		***Current Status/Outcome***
				Existing	***Potential***	
AOC 13 - Former Oily Water Lagoon	Groundwater	VOCs, SVOCs, and Metals	Groundwater	Groundwater	None	**Prior to 1974 -** The Former Oily Water Lagoon was used to treat wastewater and oily waste. The South Landfarm was constructed in the location of the Former Oily Water Lagoon. All status details are provided in AOC 2 - South Landfarm.
AOC 14 - TM Monitoring Wells	Groundwater	LNAPL, VOCs, and SVOCs	Groundwater	Groundwater	None	**October 2009** - HC-PR installed fourteen (14) temporary wells (TM-TW-1 through TM-TW-14). Current and historical storage within this AOC includes MTBE, TAME, Slurry Oil, Light Cycle Oil, Raffinate, Methanol, Process Water, Gasoline, and Sour Water. Based on these results, additional groundwater delineation was conducted during the second phase of the facility groundwater delineation program. The results from this investigation were submitted during the **Fourth Quarter 2010** Status Report.
AOC 15 - Former UST Area	Groundwater	LNAPL, VOCs, and SVOCs	Groundwater	Groundwater	None	A total of five (5) USTs (0004, 0008, 0009, 0010, and 0011) were removed from this AOC. Former UST 0004 was a 550-gallon #6 fuel oil UST located immediately northwest of AST 1209. Former UST 0008 was a 1,000-gallon #6 fuel oil UST located north of AST 1211. Former UST 0009 was a 550-gallon #2 heating oil UST located north of AST 1211. Former UST 0010 and 0011 were both 550-gallon #4 heating oil USTs located north of AST 1219. Between September 15 and **October 6, 2010**, HC-PR conducted a soil and groundwater investigation of these areas during the second phase of delineation activities. An update was provided within the **Fourth Quarter 2010** Status Report.
AOC 16 - Railcar and Terminal Loading Areas	Groundwater	VOCs, SVOCs, and Metals	Groundwater	Groundwater	None	AOC 16 is separated into two distinctive areas. AOC 16A is located on the western side of the property between the refinery and terminal operations section of the facility. AOC 16B is located on the eastern side of the facility, in the marine terminal loading area. All active piping associated with the railcar is aboveground. Current and historical storage in the ASTs around AOC 16A and 16B include gasoline, gasoline blend stock, MTBE, diesel fuel, No. 2 fuel oil, jet fuel, methanol, sulfuric acid, sodium hydroxide, and monoethanolamine. All stormwater is collected and transported to the waste water treatment system. There are two monitoring wells in the vicinity of AOC 16B (PER-7 and PER-8). Between **September 15 and October 6, 2010**, HC-PR conducted a groundwater investigation of AOC 16A during the second phase of delineation activities. An update was provided within the **Fourth Quarter 2010** Status Report.
AOC 17 - Coal Dock Loading Ara	None	VOCs, SVOCs, and Metals	Soil, Groundwater and Surface Water	None	Soil, Groundwater and Surface Water	The Coal Dock Area site is identified as Block 1095 Lot 10 in Woodbridge Township, Middlesex County, New Jersey, and is owned by Prologis, LLC. The site is part of a 108-acre irregular shaped parcel situated in an industrially developed waterfront area. The AOC includes railroads and undeveloped land. The property is bordered to the west and north by Middlesex Avenue and to the south by the Port Reading Refinery. Undeveloped land, mainly storing tractor-trailers, borders the northeast of the site. Immediately to the east of the property is Arthur Kill ship channel. HC-PR is currently conducting a Preliminary Assessment of this area to determine the need for a Site Investigation. The PA will be submitted during the **First Quarter 2011**.

New Jersey Department of Environmental Protection
Site Remediation Program

LIGHT NON-AQUEOUS PHASE LIQUID (LNAPL) FREE PRODUCT REPORTING FORM

☐ **LSRP** ☐ **Subsurface Evaluator**

Date Stamp
(For Department use only)

This form is to be used to report to the Department the presence of Light Non-Aqueous Phase Liquid (LNAPL) free product and to document initial free product recovery efforts. (Note: Submittal of this form does not substitute for notifying the Department of a discharge pursuant to N.J.A.C. 7:26E-1.4.) In addition, this same form is used to accompany the report submittals that document actions taken for initial free product recovery efforts and for the interim remedial measure for LNAPL free product recovery following completion of a focused remedial investigation conducted to determine the extent of LNAPL free product.

SECTION A. SITE LOCATION

Site Name: Hess - Port Reading Refinery

List all AKAs:

Street Address: 750 Cliff Road

Municipality: Woodbridge (Township, Borough or City)

County: Middlesex Zip Code: 77002

Mailing Address if different than street address: 500 Dallas Street

Program Interest (PI) Number(s): 006148 Case Tracking Number(s): See Attachment

Date trigger compliance with Section 30 of Site Remediation Reform Act P.L.:

State Plane Coordinates for a central location at the site: Easting: 561544 Northing: 630878

Municipal Block(s) and Lot(s): Block # 756 Lot # 3

Block #	756B	Lot #	1	Block #	751	Lot #	1
Block #	760	Lot #	6	Block #	760B	Lot #	1
Block #	760B	Lot #	3	Block #		Lot #	
Block #		Lot #		Block #		Lot #	

SECTION B. NJDEP CASE MANAGER

Do you have an assigned Case Manager? ☐ Yes ☐ No

If "Yes," please list the Case Manager: Phil Cole

SECTION C. ACTION BEING REPORTED

1. ☒ **Discovery of LNAPL Free Product** Date of Discovery 10/30/1969

Type of Product (Check all that apply)

☐ Gasoline ☐ Diesel Fuel ☐ #2 Fuel Oil ☐ #4 Fuel Oil ☐ #6 Fuel Oil ☐ Jet Fuel
☐ Lubricating Oil ☐ Hydraulic Fluid ☐ Waste Oil ☐ Kerosene ☐ Unknown
☒ Other, list: Crude Oil

List source(s) of product release (put unknown if source not identified)

Was an ongoing release discovered? ☒ Yes ☐ No

Was any ongoing release stopped? ☒ Yes ☐ No

If "No," explain:

Product Thickness: 0.01'

How was LNAPL Free Product discovered?

☐ In Monitoring Well ☐ In Excavation ☐ In Soil sample/boring ☐ In Utility, list type:
☐ On Surface Water ☐ Seep ☐ Within a sump
☒ Other, explain: Tank Collapse

Initial LNAPL Free Product Recovery Efforts. (check all that apply)

☐ Product Bailing ☐ Sorbent material (socks, pads, etc.)
☐ Skimmers ☐ Ejector pumps
☒ Single or Dual-Phase Vacuum Extraction ☐ Technically Impracticable
☐ Other, explain: _____

List frequency of action: Monthly

2. ☒ LNAPL Free Product Recovery Interim Remedial Measure (IRM) Date of Free Product Discovery 10/30/1969

Is the focused remedial investigation for LNAPL free product complete? ..... ☒ Yes ☐ No

If "No," explain: _____

Has a LNAPL free product recovery system or other free product IRM been implemented at this site?.. ☒ Yes ☐ No

If "No," explain: _____

Date installation complete for free product recovery system or equivalent method following completion of the focused remedial investigation: _____

Note: Attach reports documenting all remedial investigation and interim remedial measure activities related to free product delineation and recovery and plan for operational monitoring.

SECTION D. DEVIATION FROM REGULATIONS

If the Licensed Site Remediation Professional has varied from the Technical Rules, provide the citation(s) from which the remediation varied and the page(s) in the attached document where the rationale for the deviation is provided.

N.J.A.C. 7:26E- _____ Page _____
N.J.A.C. 7:26E- _____ Page _____
N.J.A.C. 7:26E- _____ Page _____

SECTION E. PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION

Full Legal Name of the Person Responsible for Conducting the Remediation: Hess Corporation

Representative First Name: Steve Representative Last Name: Freeman

Title: EHS Advisor

Phone Number: (713) 609-5955 Ext: _____ Fax: _____

Mailing Address: One Hess Plaza, Woodbridge, NJ

City/Town: Houston State: Texas Zip Code: 07077

Email Address: sfreeman@hess.com

This certification shall be signed by the person responsible for conducting the remediation who is submitting this notification in accordance with Administrative Requirements for the Remediation of Contaminated Sites rule at N.J.A.C. 7:26C-1.5(a).

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature: _____ Date: _____

Name/Title: Steven Freeman/ EHS Advisor **No Changes Since Last Submittal** ☐

SECTION F. SUBSURFACE EVALUATOR UST REPORT CERTIFICATION FORM

Facility Name: Hess - Port Reading Refinery

Phone Number: (908) 757-1900 Ext: Fax: (908) 757-0017

Facility Street Address: 750 Cliff Road

Municipality: Woodbridge (Township, Borough or City)

State: NJ Zip Code: 07077

Block #	756	Lot #	3	Block #	756B	Lot #	1
Block #	751	Lot #	1	Block #	760	Lot #	6
Block #	760B	Lot #	1	Block #	760B	Lot #	3
Block #		Lot #		Block #		Lot #	
Block #		Lot #		Block #		Lot #	
Block #		Lot #		Block #		Lot #	
Block #		Lot #		Block #		Lot #	
Block #		Lot #		Block #		Lot #	
Block #		Lot #		Block #		Lot #	
Block #		Lot #		Block #		Lot #	
Block #		Lot #		Block #		Lot #	
Block #		Lot #		Block #		Lot #	

Owner's (or Responsible Party's) Name: Hess Corporation

Street Address: One Hess Plaza

Municipality: Woodbridge (Township, Borough or City)

State: NJ Zip Code: 07095 Telephone Number:

Assigned Case Manager: Phil Cole UST Registration Number:

Incident Report Number: Multiple TMS Number:

Certification by the Subsurface Evaluator:

I certify under penalty of law that the work was performed under my oversight and I have reviewed the report and all attached documents, and the submitted information is true, accurate and complete in accordance with the requirements of N.J.A.C. 7:14B and N.J.A.C. 7:26E. I am aware that there are significant civil and criminal penalties for submitting false, inaccurate or incomplete information including fines and/or imprisonment.

Name: William Groeling UST Cert. No.: 0022589

Firm: EnviroTrac Ltd. Firm's UST Cert. Number: 00898

Firm Address: 400E Corporate Court

City/Town: South Plainfield State: NJ Zip Code: 07080

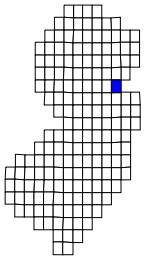
Phone Number: (908) 757-1900 Ext: Fax: (908) 757-0017

Signature: Date:

No Changes Since Last Submittal ☐

Submit this form to the assigned case manager. If there is no assigned case manager, submit this form to:

Bureau of Case Assignment & Initial Notice
New Jersey Department of Environmental Protection
Site Remediation Program
401 East State Street, PO Box 434
Trenton, NJ 08625



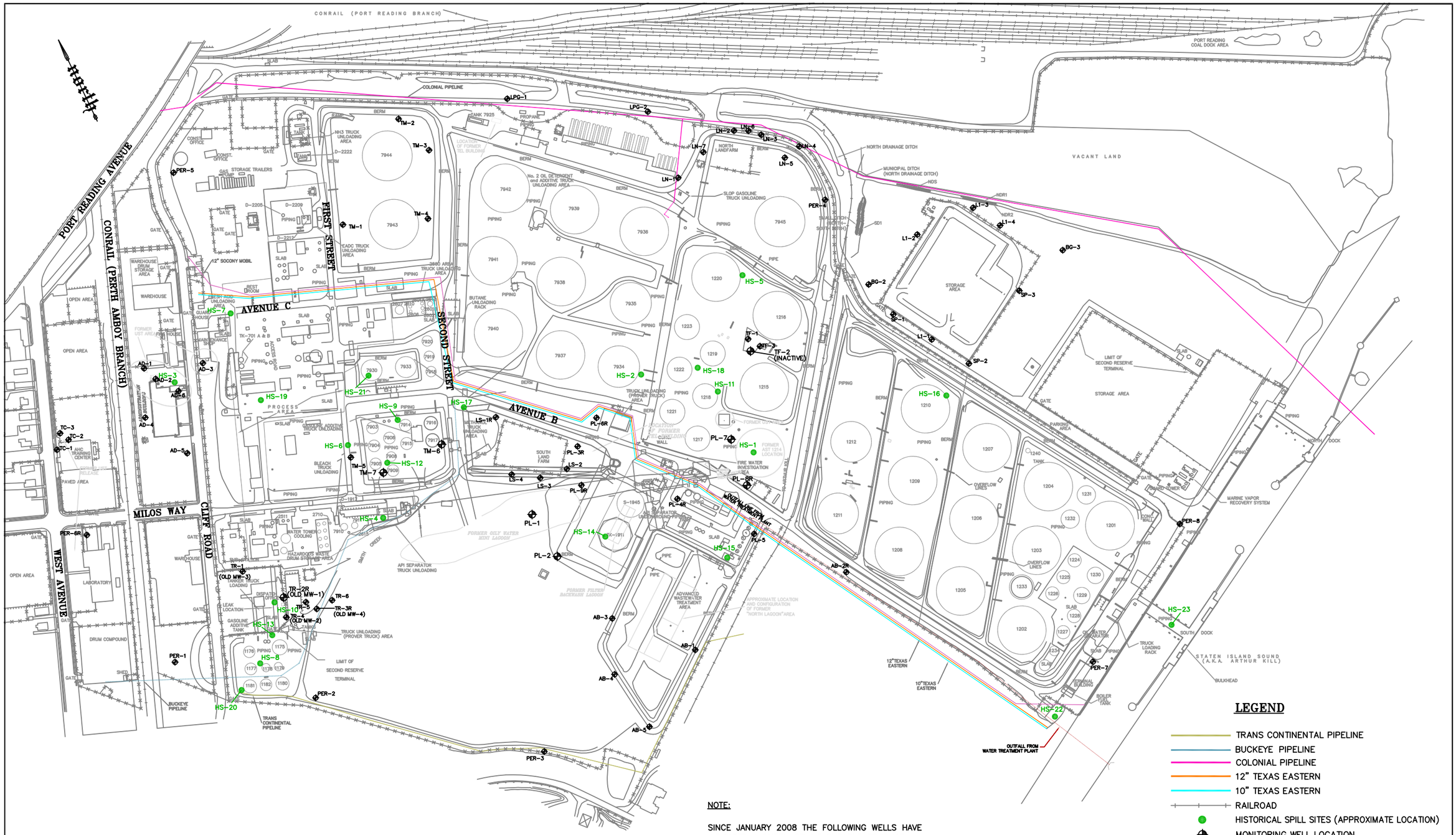
QUADRANGLE LOCATION:
ARTHUR KILL, NEW JERSEY

SOURCE:
USGS 7.5 MINUTE SERIES

N
W E
S

2000 0 2000 4000 Feet

FIGURE #	SITE LOCATION MAP	DRAWN BY: B.J.S.	EnviroTrac
1	HESS CORPORATION 750 CLIFF ROAD PORT READING, NEW JERSEY	DATE: 4/22/08	400 E Corporate Court South Plainfield, NJ 07080 PHONE: (908) 757-1900 FAX: 757-0017



NOTE:

SINCE JANUARY 2008 THE FOLLOWING WELLS HAVE INDICATED A SHEEN OR MEASURABLE PRODUCT; PL-1, PL-2, PL-5, PL-7, TM-6, TM-7, TF-2 AND TR-2R.

FIGURE # 2	HESS CORPORATION 750 CLIFF ROAD PORT READING, NEW JERSEY	SITE PLAN WITH HISTORIC SPILL LOCATIONS	0 350 SCALE IN FEET	EnviroTrac ENVIRONMENTAL SERVICES 400E CORPORATE COURT, So. PLAINFIELD NJ 07080 PHONE: (908)757-1900 FAX: (908)757-0017
		DRAWN BY: B.S.	REVISION DATE: 10/12/10	

north

LEGEND:

- MONITORING WELL
- AMBIENT AIR SAMPLE

FIGURE #			
3	HESS CORPORATION 750 CLIFF ROAD PORT READING, NEW JERSEY	AOC 11 – ADMINISTRATION BUILDING AIR SAMPLING LOCATION MAP	0 5 10 SCALE IN FEET
		DRAWN BY: B.S. / REVISION DATE: 10/19/10	

EnviroTrac
ENVIRONMENTAL SERVICES
400E CORPORATE COURT, So. PLAINFIELD NJ 07080
PHONE: (908)757-1900 FAX: (908)757-0017

Proposed Surface Water/Sediment Sample

Sediment to be analyzed for TOC, PH, Particle Grain Size, TPHC, TCL/TAL+30

Surface Water to be Analyzed For TPHC and TCL/TAL+30

N

W E

S

NOTES:
DIGITAL IMAGERY PROVIDED BY NJDEP (2007)

ALL SURFACE WATER SAMPLES TO BE ANALYZED FOR TPHC.
ALL SEDIMENT SAMPLES TO BE ANALYZED FOR TOC/PH/PARTICLE GRAIN SIZE, AND TPHC.

0 480 960 1,920 2,880 3,840 Feet

FIGURE #	SMITH CREEK PROPOSED SAMPLING LOCATIONS	DRAWN BY: B.S.	EnviroTrac ENVIRONMENTAL SERVICES
4	HESS CORPORATION 750 CLIFF ROAD PORT READING, NEW JERSEY	DATE: 7/27/10	400E CORPORATE COURT, So. PLAINFIELD NJ 07080 PHONE: (908)757-1900 FAX: (908)757-0017

Table 1
Case Number List
Hess - Port Reading Refinery
750 Cliff Road
Port Reading, NJ

Date of Discharge	NJDEP Case Number	Material/ Amount Released
4/25/1990	90-0425-0021	Approximately 840 - 1,680 gallons of gasoline
1/28/1991	91-1-28-1002-17	10 - 50 gallons of No. 2 fuel oil
9/25/1991	91-9-25-1014-00	Approximately 500 - 700 gallons of light oil
1/17/1992	92-1-17-1447-31	Approximately 1,260-gallons of catfeed
6/3/1992	92-6-3-1318-27	40 - 50 gallons of FCCU feedstock and No. 2 fuel oil
10/28/1992	92-10-28-1052-59	Undetermined
4/30/1993	93-4-30-1638-14	Approximately 84-gallons of No. 2 fuel oil
8/23/1993	93-08-23-0952-57	Approximately 20-gallons of light cycle oil
10/21/1993	39-10-21-1435-21	Approximately 255-gallons of gasoline
1/28/1994	94-01-28-0737-38	1,000-gallons of gasoline
4/26/1994	94-4-26-1139-52	Approximately 84-gallons of feedstock
10/3/1994	94-10-03-0819-31	25-gallons of recovered oil
3/7/1995	95-03-07-0055-00	Approximately 100-gallons of recovered oil
3/18/1995	95-03-18-1523-41	Approximately 50 - 100 gallons of slurry oil
10/10/1997	97-10-10-2359-11	Undetermined amount of catfeed oil

Table 1
Case Number List
Hess - Port Reading Refinery
750 Cliff Road
Port Reading, NJ

Date of Discharge	NJDEP Case Number	Material/ Amount Released
11/7/1997	97-11-7-1647-16	Approximately 50-gallons of gasoline
4/2/1998	98-04-02-0944-48	Approximately 100,000-gallons of wastewater
5/14/2000	00-05-14-2106-28	Approximately 50-gallons of petroleum impacted wastewater
5/28/2002	02-05-28-1640-14	Approximately 420-gallons of Algerian Resid (FCCU feedstock)
6/16/2003	03-06-16-1258-24	Approximately 210-gallons of gasoline
5/25/2006	06-05-25-1243-17	Approximately 1-gallon of diesel fuel
3/9/2007	07-03-09-1437-52	Approximately 26,000-gallons of gasoline
5/11/2007	07-05-11-1330-47	Unknown amount of sulfuric acid
11/1/2007	07-11-01-1625-32	Approximately 2-gallons of oil
8/14/2008	08-08-14-0949-36	Approximately 30-gallons of gasoline
5/19/2009	09-05-19-1218-35	Unknown
12/29/2009	09-12-29-1109-47	1-gallon of residual oil
4/25/2010	10-04-25-0820-32	Approximately 3-gallons
7/17/2010	10-07-17-0836-07	2-4 gallons of Algerian residual

Table 2
Site Wide Groundwater Sampling
Hess Corporation - Port Reading Refinery
750 Cliff Road
Port Reading, New Jersey

		Gauging Data					Metals								
Sample ID	Date	TOC Elevation (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	GW Elevation (ft)	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt
NJDEP GWQS		-	-	-	-	-	200	6	3	6000	NA	4	NA	70	100
AB-1	5/13/02	13.85	5.68	NP	NP	8.17	**2,050**	<5.0	**7.7**	<200	NA	NA	78,300	<10	NA
	09/01/09	13.85	5.25	NP	NP	8.6	**11,700**	<6.0	**14.6**	<200	<1.0	<3.0	22,300	11.9	<50
	09/08/10	13.85	8.51	NP	NP	5.34	**43,500**	<12	**70.2**	<400	2.8	<6.0	45,000	98.4	<100
AB-2	5/13/02	12.03	5.3	NP	NP	6.73	**4,850**	<5.0	**8.4**	<200	NA	NA	61,100	<10	NA
AB-2R	09/01/09	10.81	4.04	NP	NP	6.77	**921**	<6.0	**14.3**	226	<1.0	<3.0	25,200	<10	<50
	09/08/10	10.81	5.46	NP	NP	5.35	**5,990**	<6.0	**5.9**	<200	<1.0	<3.0	11,800	11.7	<50
AB-3	5/13/02	7.09	7.35	NP	NP	-0.26	**7,490**	<5.0	**20.3**	<200	NA	NA	43,300	16.9	NA
	09/01/09	7.09	3.63	NP	NP	3.46	**561**	**8.5**	**32.3**	216	<1.0	**4.7**	109,000	<10	<50
	09/08/10	7.09	5.77	NP	NP	1.32	**303**	<6.0	**5.1**	<200	<1.0	<3.0	122,000	<10	<50
AB-4	5/13/02	14.24	6.86	NP	NP	7.38	**7,360**	<5.0	**17**	597	NA	NA	52,700	10.3	NA
	09/01/09	14.24	3.71	NP	NP	10.53	**5,200**	<6.0	<3.0	<200	<1.0	<3.0	85,900	<10	<50
	09/08/10	Well Dry					NA	NA	NA	NA	NA	NA	NA	NA	NA
AB-5	5/13/02	13.24	5.58	NP	NP	7.66	**2,880**	<5.0	**10.4**	<200	NA	NA	146,000	<10	NA
	09/01/09	13.24	4.72	NP	NP	8.52	**283**	<6.0	<3.0	<200	<1.0	<3.0	23,800	<10	<50
	09/08/10	13.24	8.03	NP	NP	5.21	**1,300**	<6.0	**8.2**	<200	<1.0	<3.0	34,800	<10	<50
AD-1	5/13/02	18.25	6	NP	NP	12.25	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	18.25	3.71	NP	NP	14.54	<200	<6.0	<3.0	<200	<1.0	<3.0	75,600	<10	<50
	09/10/10	18.25	5.79	NP	NP	12.46	**504**	<6.0	<3.0	<200	<1.0	<3.0	44,400	<10	<50
AD-2	5/13/02	18.95	6.85	NP	NP	12.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	18.95	6.75	NP	NP	12.2	**445**	<6.0	**8.6**	296	<1.0	<3.0	292,000	<10	<50
	09/07/10	18.95	7.76	NP	NP	11.19	**<200**	<6.0	**6.8**	259	<1.0	<3.0	322,000	<10	<50
AD-3	5/13/02	22	8.6	NP	NP	13.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	22	9.35	NP	NP	12.65	<200	<6.0	<3.0	<200	<1.0	<3.0	41,200	<10	<50
	09/08/10	22	10.4	NP	NP	11.6	**2,410**	<6.0	<3.0	<200	<1.0	<3.0	30,600	<10	<50
AD-4	5/13/02	17.55	7.14	NP	NP	10.41	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	17.55	5.03	NP	NP	12.52	**394**	<6.0	<3.0	<200	<1.0	<3.0	39,800	<10	<50
	09/07/10	17.55	6.97	NP	NP	10.58	**772**	<6.0	**19.2**	231	<1.0	<3.0	66,800	<10	<50
AD-5	5/13/02	17.73	6.71	NP	NP	11.02	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	17.73	5.18	NP	NP	12.55	**1,530**	<6.0	<3.0	263	<1.0	<3.0	103,000	<10	<50
	09/07/10	17.73	6.85	NP	NP	10.88	**363**	<6.0	<3.0	292	<1.0	<3.0	102,000	<10	<50
AD-6	5/13/02	19.18	5.51	NP	NP	13.67	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	19.18	6.38	NP	NP	12.8	**2,310**	<6.0	<3.0	<200	<1.0	**5**	31,700	<10	<50
	09/07/10	19.18	7.65	NP	NP	11.53	**746**	<6.0	<3.0	<200	<1.0	3.6	77,500	<10	<50
LPG-1	5/13/02	13.74	5.02	NP	NP	8.72	**15,100**	<5.0	13.2	<200	NA	NA	84,500	16.5	NA
	09/01/09	13.74	2.9	NP	NP	10.84	**652**	<6.0	<3.0	<200	<1.0	<3.0	<5000	<10	<50
	09/08/10	13.74	5.35	NP	NP	8.39	**2,340**	<6.0	**20.5**	<200	<1.0	<3.0	6,230	<10	<50
LPG-2	5/13/02	9.3	3.5	NP	NP	5.8	**5,490**	<5.0	**5.8**	<200	NA	NA	28,600	11.9	NA
	09/01/09	9.3	3.02	NP	NP	6.28	<200	<6.0	<3.0	<200	<1.0	<3.0	16,700	<10	<50
	09/08/10	9.3	3.13	NP	NP	6.17	278	<6.0	**5**	<200	<1.0	<3.0	17,800	<10	<50
PER-1	5/13/02	19.29	10.34	NP	NP	8.95	**1,660**	<5.0	**5.5**	<200	NA	NA	56,200	<10	NA
	08/31/09	19.29	8.81	NP	NP	10.48	**3,710**	<6.0	<3.0	<200	<1.0	<3.0	33,800	<10	<50
	09/07/10	19.29	10.17	NP	NP	9.12	**677**	<6.0	<3.0	<200	<1.0	<3.0	50,600	<10	<50
PER-2	5/13/02	12.91	6.22	NP	NP	6.69	**17,100**	<5.0	**29.9**	<200	NA	NA	24,400	31	NA
	09/02/09	12.91	6.27	NP	NP	6.64	**509**	<6.0	<3.0	<200	<1.0	<3.0	22,800	<10	<50
	09/09/10	12.91	8.59	NP	NP	4.32	**15,000**	<6.0	**18**	<200	3.9	<3.0	29,800	26	<50
PER-3	5/13/02	9.55	4.91	NP	NP	4.64	**2,360**	<5.0	**13.6**	<200	NA	NA	40,700	<10	NA
	09/02/09	9.55	5.11	NP	NP	4.44	**238**	<6.0	**8.9**	<200	<1.0	<3.0	18,000	<10	<50
	09/09/10	9.55	5.19	NP	NP	4.36	**1,630**	<6.0	**9.3**	<200	<1.0	<3.0	102,000	<10	<50

All Data in ug/L unless otherwise noted.
ND - Not Detected
NA - Not Analyzed

Table 2
Site Wide Groundwater Sampling
Hess Corporation - Port Reading Refinery
750 Cliff Road
Port Reading, New Jersey

		Metals													
Sample ID	**Date**	**Copper**	**Iron**	**Lead**	**Magnesium**	**Manganese**	**Mercury**	**Nickel**	**Potassium**	**Selenium**	**Silver**	**Sodium**	**Thallium**	**Vanadium**	**Zinc**
NJDEP GWQS		**1,300**	**300**	**5**	**NA**	**50**	**2**	**100**	**NA**	**40**	**40**	**50,000**	**2**	**60**	**2,000**
AB-1	5/13/02	<25	**6,430**	3.9	25,100	**205**	<0.20	NA	115,000	<5.0	NA	**321,000**	NA	<50	30.2
	09/01/09	34	**5,830**	**21**	<5000	24	<0.20	<10	17,500	<10	<10	15,400	<2.0	<50	61.8
	09/08/10	92.4	**30,600**	**66**	13,800	**119**	<0.20	51.2	39,000	<20	<20	31,600	<4.0	103	248
AB-2	5/13/02	<25	**16,900**	**11.7**	58,900	**725**	<0.20	NA	21,000	<5.0	NA	**431,000**	NA	<50	50.8
AB-2R	09/01/09	21.3	**30,600**	4.5	19,700	**141**	<0.20	<10	13,700	<10	<10	**292,000**	<2.0	<50	25.5
	09/08/10	30.8	**24,400**	**11.2**	10,700	**454**	<0.20	<10	11,600	<10	<10	**115,000**	<2.0	<50	29.9
AB-3	5/13/02	<25	**100,000**	**10.7**	57,700	**479**	<0.20	NA	26,900	<5.0	NA	**340,000**	NA	<50	35.8
	09/01/09	10.7	**114,000**	4.4	183,000	**364**	<0.20	<10	81,100	<10	<10	**1,070,000**	<4.0	<50	<20
	09/08/10	17.5	**81,700**	<3.0	72,000	**3,590**	<0.20	<10	154,000	<10	<10	**1,150,000**	<2.0	<50	37.5
AB-4	5/13/02	<25	**16,200**	**10.2**	98,100	**212**	0.2	NA	25,400	<5.0	NA	**409,000**	NA	<50	26.2
	09/01/09	10.4	**2,370**	**8.3**	6,600	**362**	<0.20	**115**	68,000	<10	<10	**296,000**	<2.0	<50	528
	09/08/10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AB-5	5/13/02	<25	**39,700**	4.9	49,800	**879**	<0.20	NA	188,000	<5.0	NA	**822,000**	NA	<50	28.2
	09/01/09	<10	**4,600**	4.1	<5,000	39	<0.20	<10	<10,000	<10	<10	<10000	<2.0	<50	<20
	09/08/10	53.9	**7,540**	**6**	<5,000	36	<0.20	<10	<10,000	<10	<10	12,700	<2.0	<50	26.6
AD-1	5/13/02	NA	**14,300**	NA	NA	**2,760**	NA	NA	NA	NA	NA	**81,400**	NA	NA	NA
	08/31/09	35.6	**1,390**	<3.0	6,060	**1,710**	<0.20	14.1	<10,000	<10	<10	**156,000**	<2.0	<50	43.3
	09/10/10	50.5	**1,260**	<3.0	5,720	**1,210**	<0.20	<10	<10,000	<10	<10	**145,000**	<2.0	<50	<20
AD-2	5/13/02	NA	**21,600**	NA	NA	**10,300**	NA	NA	NA	NA	NA	**91,300**	NA	NA	NA
	08/31/09	39.2	**22,100**	<3.0	65,300	**14,100**	<0.20	24	<10,000	<10	<10	**239,000**	<2.0	<50	<20
	09/07/10	<10	**15,000**	<3.0	78,100	**16,700**	<0.20	20.4	<10,000	<20	<10	**304,000**	<4.0	<50	<20
AD-3	5/13/02	NA	**5,370**	NA	NA	**3,470**	NA	NA	NA	NA	NA	**97,200**	NA	NA	NA
	08/31/09	<10	<100	<3.0	17,000	24	<0.20	<10	<10,000	<10	<10	44,000	<2.0	<50	<20
	09/08/10	26.2	**2,800**	<3.0	16,400	**373**	<0.20	<10	<10,000	<10	<10	42,900	<2.0	<50	<20
AD-4	5/13/02	NA	**9,510**	NA	NA	**6,280**	NA	NA	NA	NA	NA	**270,000**	NA	NA	NA
	08/31/09	42.8	**6,540**	**5.1**	12,400	**547**	<0.20	<10	<10,000	<10	<10	**245,000**	<2.0	<50	27.5
	09/07/10	54.5	**25,100**	**7.2**	27,600	**2,430**	<0.20	<10	<10,000	<10	<10	**369,000**	<2.0	<50	22.5
AD-5	5/13/02	NA	**16,900**	NA	NA	**3,250**	NA	NA	NA	NA	NA	48,000	NA	NA	NA
	08/31/09	23.3	**2,010**	<3.0	36,700	**3,220**	<0.20	11.3	<10,000	<10	<10	**190,000**	<2.0	<50	<20
	09/07/10	35.2	**525**	<3.0	35,000	**3,830**	<0.20	12.7	<10,000	<10	<10	**126,000**	<2.0	<50	<20
AD-6	5/13/02	NA	**8,580**	NA	NA	**4,810**	NA	NA	NA	NA	NA	**88,200**	NA	NA	NA
	08/31/09	39.7	**3,510**	**5.2**	<5,000	**142**	<0.20	<10	<10,000	<10	<10	20,600	<2.0	<50	40.5
	09/07/10	13.9	**1,280**	<3.0	8,450	**52.2**	<0.20	<10	<10,000	<10	<10	30,000	<2.0	<50	42.4
LPG-1	5/13/02	49.7	**44,500**	**22.3**	47,600	**8,380**	<0.20	NA	7,090	<5.0	NA	**112,000**	NA	<50	87.7
	09/01/09	26.9	**1,920**	3.6	<5,000	**440**	<0.20	<10	<10,000	<10	<10	19,900	<2.0	<50	41.6
	09/08/10	36.7	**19,100**	**18.4**	<5,000	**757**	<0.20	<10	<10,000	<10	<10	21,800	<2.0	<50	26.4
LPG-2	5/13/02	<25	**40,500**	**14.8**	17,700	**8,550**	<0.20	NA	16,600	<5.0	NA	**141,000**	NA	<50	54.4
	09/01/09	22	**15,500**	<3.0	9,200	**382**	<0.20	<10	10,300	<10	<10	**72,000**	<2.0	<50	29.3
	09/08/10	21.8	**41,400**	<3.0	9,690	**459**	<0.20	<10	10,600	<10	<10	50,000	<2.0	<50	<20
PER-1	5/13/02	<25	**1,240**	3.9	6,330	**153**	<0.20	NA	<5,000	<5.0	NA	15,100	NA	<50	<20
	08/31/09	29.2	**3,530**	**7.9**	5,290	**1,000**	<0.20	<10	<10,000	<10	<10	11,300	<2.0	<50	30.5
	09/07/10	33.3	**873**	<3.0	6,720	**1,740**	<0.20	<10	<10,000	<10	<10	15,800	<2.0	<50	28
PER-2	5/13/02	63.6	**30,700**	**51.4**	5,330	**263**	<0.20	NA	21,100	5	NA	22,700	NA	**100**	101
	09/02/09	17.4	**3,240**	3.1	<5,000	43	<0.20	<10	<10,000	<10	<10	<10,000	<2.0	<50	22.5
	09/09/10	288	**16,800**	**65**	<5,000	**175**	0.41	45.6	<10,000	<10	<10	<10,000	<2.0	<50	735
PER-3	5/13/02	<25	**54,000**	**12.2**	60,100	**513**	0.25	NA	32,000	5	NA	**599,000**	NA	<50	40.2
	09/02/09	<10	**7,940**	<3.0	9,010	**535**	<0.20	<10	<10,000	<10	<10	**104,000**	<2.0	<50	<20
	09/09/10	36.3	**11,200**	4.9	65,300	**1,670**	0.29	<10	15,600	<10	<10	**596,000**	<2.0	<50	29.4

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Table 2
Site Wide Groundwater Sampling
Hess Corporation - Port Reading Refinery
750 Cliff Road
Port Reading, New Jersey

		Volatile Organic Compounds											
Sample ID	**Date**	**Acetone**	**Benzene**	**2-Butanone (MEK)**	**Chlorobenzene**	**Chloroform**	**Chloroethane**	**Cyclohexane**	**1,2-Dichlorobenzene**	**1,3-Dichlorobenzene**	**1,4-Dichlorobenzene**	**Dichlorodifluoromethane**	**1,1-Dichloroethane**
NJDEP GWQS		**6,000**	**1**	**300**	**50**	**70**	**5**	**NA**	**600**	**600**	**75**	**1,000**	**50**
AB-1	5/13/02	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	44.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AB-2	5/13/02	5.1	0.51	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND
AB-2R	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AB-3	5/13/02	ND	**75.9**	ND	5.4	ND	ND	NA	NA	NA	NA	NA	ND
	09/01/09	ND	**15.1**	ND	1.5	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AB-4	5/13/02	ND	0.71	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AB-5	5/13/02	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND
	09/01/09	8.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AD-1	5/13/02	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	5.7
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.45
	09/10/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AD-2	5/13/02	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	**2,040**
	08/31/09	ND	**10.3**	ND	1.9	9.1	ND	6.4	2.3	1.7	4.5	12.3	**1,230**
	09/07/10	ND	ND	ND	**58.8**	ND	ND	ND	ND	ND	46.9	ND	**1,950**
AD-3	5/13/02	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	0.98
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AD-4	5/13/02	ND	**6.8**	ND	**304**	**171**	ND	NA	NA	NA	NA	NA	**161**
	08/31/09	ND	**1.9**	ND	**125**	ND	ND	ND	25.5	34.7	47.6	ND	0.43
	09/07/10	ND	**12.4**	ND	**938**	ND	ND	ND	59.2	107	**284**	ND	0.68
AD-5	5/13/02	ND	ND	ND	13.6	ND	ND	NA	NA	NA	NA	NA	ND
	08/31/09	ND	**1.2**	ND	44.9	0.39	ND	ND	362	8.9	**113**	ND	4
	09/07/10	ND	ND	ND	3.1	ND	ND	ND	9.4	ND	5.6	ND	ND
AD-6	5/13/02	ND	ND	ND	47.3	ND	ND	NA	NA	NA	NA	NA	ND
	08/31/09	ND	ND	ND	ND	0.94	ND	ND	ND	ND	ND	ND	ND
	09/07/10	ND	ND	ND	ND	0.44	ND	ND	ND	ND	ND	ND	ND
LPG-1	5/13/02	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND
	09/01/09	3.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LPG-2	5/13/02	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PER-1	5/13/02	ND	0.48	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND
	08/31/09	ND	**1.5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PER-2	5/13/02	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND
	09/02/09	9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/09/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PER-3	5/13/02	4.1	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/09/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Table 2
Site Wide Groundwater Sampling
Hess Corporation - Port Reading Refinery
750 Cliff Road
Port Reading, New Jersey

		Volatile Organic Compounds													
Sample ID	**Date**	**1,2-Dichloroethane**	**1,1-Dichloroethene**	**cis-1,2-Dichloroethene**	**trans-1,2-Dichloroethene**	**1,2-Dichloropropane**	**1,4-Dioxane**	**Ethylbenzene**	**Freon 113**	**Isopropylbenzene**	**Methylcyclohexane**	**Methyl Tert Butyl Ether (MTBE)**	**Tert Butyl Alcohol**	**Methylene chloride**	**Tetrachloroethene**
NJDEP GWQS		**2**	**1**	**70**	**100**	**1**	**10**	**700**	**NA**	**NA**	**NA**	**70**	**100**	**3**	**1**
AB-1	5/13/02	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AB-2	5/13/02	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND
AB-2R	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AB-3	5/13/02	ND	ND	ND	ND	ND	NA	7.7	NA	NA	NA	NA	NA	ND	ND
	09/01/09	ND	ND	ND	ND	ND	ND	0.31	ND	2.2	ND	2.6	25.4	ND	ND
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AB-4	5/13/02	ND	ND	ND	ND	ND	NA	1.6	NA	NA	NA	NA	NA	ND	ND
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AB-5	5/13/02	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AD-1	5/13/02	ND	**5.2**	ND	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/10/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AD-2	5/13/02	ND	**23,000**	ND	ND	**171**	NA	ND	NA	NA	NA	NA	NA	ND	**368**
	08/31/09	**19.1**	**5,300**	13.6	2.2	**60.1**	**28,400**	5.2	ND	5.5	6.6	0.36	ND	**17**	**183**
	09/07/10	ND	**11,100**	ND	ND	ND	**38,900**	ND	ND	ND	ND	ND	ND	ND	**263**
AD-3	5/13/02	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AD-4	5/13/02	**500**	**941**	23.6	ND	**38.1**	NA	2	NA	NA	NA	NA	NA	ND	**151**
	08/31/09	1.8	**1**	0.49	ND	0.63	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/07/10	**7.5**	ND	2.2	ND	**1.2**	ND	1.3	ND	0.69	ND	ND	ND	ND	ND
AD-5	5/13/02	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	NA	**17.8**	**6.7**
	08/31/09	ND	**8.8**	**6,580**	36.3	ND	ND	ND	30.5	2.9	ND	4	ND	ND	**3,260**
	09/07/10	ND	ND	**644**	2.1	ND	ND	ND	8.1	ND	ND	ND	ND	ND	**450**
AD-6	5/13/02	ND	ND	**2,340**	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	**4,420**
	08/31/09	ND	**1.1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LPG-1	5/13/02	ND	ND	ND	ND	ND	NA	ND	4.5	NA	NA	NA	NA	ND	ND
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LPG-2	5/13/02	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PER-1	5/13/02	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND
	08/31/09	ND	ND	ND	ND	ND	ND	0.28	ND	ND	ND	56.8	ND	ND	ND
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PER-2	5/13/02	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/09/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PER-3	5/13/02	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/09/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.8	ND	ND

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Table 2
Site Wide Groundwater Sampling
Hess Corporation - Port Reading Refinery
750 Cliff Road
Port Reading, New Jersey

		Volatile Organic Compounds								
Sample ID	Date	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Vinyl chloride	Xylene (total)	Total TIC, Volatile
NJDEP GWQS		600	NA	9	30	3	1	1	1,000	500
AB-1	5/13/02	ND	NA	NA	ND	ND	ND	ND	ND	6.3
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	0
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	73
AB-2	5/13/02	ND	NA	NA	ND	ND	ND	ND	ND	11
AB-2R	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	0
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	0
AB-3	5/13/02	ND	NA	NA	ND	ND	ND	ND	11.9	**531**
	09/01/09	ND	ND	ND	ND	ND	ND	ND	0.87	12.8
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	0
AB-4	5/13/02	ND	NA	NA	ND	ND	ND	ND	6	92.8
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	0
	09/08/10	NA	NA	NA	NA	NA	NA	NA	NA	NA
AB-5	5/13/02	ND	NA	NA	ND	ND	ND	ND	ND	100
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	0
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	0
AD-1	5/13/02	ND	NA	NA	ND	ND	0.47	ND	ND	4.42
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	0
	09/10/10	ND	ND	ND	ND	ND	ND	ND	ND	0
AD-2	5/13/02	178	NA	NA	**9,960**	ND	**139**	ND	ND	0
	08/31/09	44.7	0.94	3.4	**1,870**	**21.5**	**69.6**	**235**	46	88.9
	09/07/10	88.2	ND	ND	**6,800**	ND	**88.4**	**374**	27.1	0
AD-3	5/13/02	ND	NA	NA	ND	ND	ND	ND	ND	33
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	0
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	0
AD-4	5/13/02	ND	NA	NA	**84.9**	**5.4**	**11.6**	**10.3**	18.7	**2,592.40**
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	5.3
	09/07/10	ND	ND	4.5	ND	ND	ND	ND	0.58	0
AD-5	5/13/02	ND	NA	NA	ND	ND	ND	ND	ND	167.1
	08/31/09	1.1	23	**95.7**	0.83	ND	**1,430**	**49.1**	ND	0
	09/07/10	ND	4.4	3.5	ND	ND	**183**	ND	2.5	0
AD-6	5/13/02	ND	NA	NA	ND	ND	**873**	**207**	ND	**528**
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	0
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	0
LPG-1	5/13/02	ND	NA	NA	ND	ND	ND	ND	ND	**2,631**
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	0
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	0
LPG-2	5/13/02	ND	NA	NA	ND	ND	ND	ND	ND	7.1
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	0
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	0
PER-1	5/13/02	ND	NA	NA	ND	ND	ND	ND	ND	3.3
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	0
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	0
PER-2	5/13/02	ND	NA	NA	ND	ND	ND	ND	ND	490
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	0
	09/09/10	ND	ND	ND	ND	ND	ND	ND	ND	0
PER-3	5/13/02	ND	NA	NA	ND	ND	ND	ND	ND	**1,800**
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	0
	09/09/10	ND	ND	ND	ND	ND	ND	ND	ND	0

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Table 2
Site Wide Groundwater Sampling
Hess Corporation - Port Reading Refinery
750 Cliff Road
Port Reading, New Jersey

		Semi-volatile Organic Compounds										
Sample ID	**Date**	**Pentachlorophenol**	**4-Chloro-3-methyl phenol**	**Acetophenone**	**Acenaphthene**	**Acenaphthylene**	**Anthracene**	**Benzo(a)anthracene**	**Benzo(a)pyrene**	**Benzo(b)fluoranthene**	**Benzo(g,h,i)perylene**	**Benzo(k)fluoranthene**
NJDEP GWQS		**0.3**	**NA**	**700**	**400**	**100**	**2,000**	**0.1**	**0.1**	**0.2**	**100**	**0.5**
AB-1	5/13/02	NA	NA	ND	ND	NA	ND	NA	NA	NA	NA	NA
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	ND	0.165	ND	0.265	**0.295**	ND	ND	ND	ND
AB-2	5/13/02	NA	NA	ND	ND	NA	ND	NA	NA	NA	NA	NA
AB-2R	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AB-3	5/13/02	NA	NA	ND	13	NA	ND	NA	NA	NA	NA	NA
	09/01/09	ND	ND	ND	0.436	0.429	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	ND	4.59	ND	0.221	ND	ND	ND	ND	ND
AB-4	5/13/02	NA	NA	ND	49	NA	0.64	NA	NA	NA	NA	NA
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AB-5	5/13/02	NA	NA	ND	ND	NA	ND	NA	NA	NA	NA	NA
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	ND	ND	ND	0.193	**0.304**	ND	ND	ND	ND
AD-1	5/13/02	NA	NA	ND	ND	NA	ND	NA	NA	NA	NA	NA
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/10/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AD-2	5/13/02	NA	NA	ND	ND	NA	ND	NA	NA	NA	NA	NA
	08/31/09	**0.677**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AD-3	5/13/02	NA	NA	ND	ND	NA	ND	NA	NA	NA	NA	NA
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AD-4	5/13/02	NA	NA	ND	ND	NA	ND	NA	NA	NA	NA	NA
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AD-5	5/13/02	NA	NA	ND	ND	NA	ND	NA	NA	NA	NA	NA
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AD-6	5/13/02	NA	NA	ND	ND	NA	ND	NA	NA	NA	NA	NA
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LPG-1	5/13/02	NA	NA	ND	ND	NA	ND	NA	NA	NA	NA	NA
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LPG-2	5/13/02	NA	NA	ND	ND	NA	ND	NA	NA	NA	NA	NA
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PER-1	5/13/02	NA	NA	ND	ND	NA	ND	NA	NA	NA	NA	NA
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PER-2	5/13/02	NA	NA	ND	ND	NA	ND	NA	NA	NA	NA	NA
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/09/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PER-3	5/13/02	NA	NA	ND	ND	NA	ND	NA	NA	NA	NA	NA
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/09/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

All Data in ug/L unless otherwise noted.
ND - Not Detected
NA - Not Analyzed

Table 2
Site Wide Groundwater Sampling
Hess Corporation - Port Reading Refinery
750 Cliff Road
Port Reading, New Jersey

		Semi-volatile Organic Compounds										
Sample ID	Date	1,1'-Biphenyl	2,4-Dimethylphenol	Chrysene	2-Methylphenol	3&4-Methylphenol	Phenol	Fluoranthene	2,4,5-Trichlorophenol	Fluorene	2,4,6-Trichlorophenol	Hexachlorobenzene
NJDEP GWQS		**400**	**100**	**5**	**NA**	**NA**	**2,000**	**300**	**700**	**300**	**20**	**0.02**
AB-1	5/13/02	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	0.103	ND	ND	ND	0.389	ND	0.354	ND	ND
AB-2	5/13/02	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA
AB-2R	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AB-3	5/13/02	ND	ND	NA	ND	ND	ND	ND	NA	6.7	NA	NA
	09/01/09	ND	ND	ND	ND	ND	0.591	ND	ND	ND	**21.2**	ND
	09/08/10	ND	ND	ND	ND	ND	ND	0.18	ND	2.01	ND	ND
AB-4	5/13/02	ND	2	NA	ND	0.84	ND	ND	NA	16.9	NA	NA
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AB-5	5/13/02	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	0.113	ND	ND	ND	0.269	ND	0.172	ND	ND
AD-1	5/13/02	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/10/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AD-2	5/13/02	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/07/10	1.2	ND	ND	ND	ND	ND	ND	ND	0.298	ND	ND
AD-3	5/13/02	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AD-4	5/13/02	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AD-5	5/13/02	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AD-6	5/13/02	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LPG-1	5/13/02	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LPG-2	5/13/02	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PER-1	5/13/02	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PER-2	5/13/02	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/09/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PER-3	5/13/02	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/09/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Table 2
Site Wide Groundwater Sampling
Hess Corporation - Port Reading Refinery
750 Cliff Road
Port Reading, New Jersey

		Semi-volatile Organic Compounds										
Sample ID	Date	Indeno(1,2,3-cd)pyrene	Benzaldehyde	Naphthalene	Phenanthrene	Pyrene	Butyl benzyl phthalate	4-Chloroaniline	Carbazole	1,4-Dichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene
NJDEP GWQS		**0.2**	**NA**	**300**	**100**	**200**	**100**	**30**	**NA**	**75**	**600**	**600**
AB-1	5/13/02	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
	09/08/10	ND	ND	ND	1.54	0.375	ND	ND	ND	ND	ND	ND
AB-2	5/13/02	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
AB-2R	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AB-3	5/13/02	NA	NA	52.7	5.4	ND	ND	ND	2.7	ND	ND	ND
	09/01/09	ND	0.287	0.503	0.316	ND	ND	6.1	ND	NA	NA	NA
	09/08/10	ND	ND	ND	0.223	0.188	ND	ND	ND	ND	ND	ND
AB-4	5/13/02	NA	NA	141	8	ND	ND	ND	10.7	ND	ND	ND
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
	09/08/10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AB-5	5/13/02	NA	NA	ND	1.2	ND	ND	ND	ND	ND	ND	ND
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
	09/08/10	ND	ND	ND	0.726	0.302	ND	ND	ND	ND	ND	ND
AD-1	5/13/02	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
	09/10/10	ND	ND	ND	0.116	ND	ND	ND	ND	ND	ND	ND
AD-2	5/13/02	NA	NA	28.2	ND	ND	1.9	ND	ND	3.6	3.6	1.6
	08/31/09	ND	ND	2.82	ND	ND	ND	ND	ND	NA	NA	NA
	09/07/10	ND	ND	10	ND	ND	ND	ND	ND	ND	ND	ND
AD-3	5/13/02	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AD-4	5/13/02	NA	NA	1.6	ND	ND	ND	ND	ND	**192**	290	111
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
	09/07/10	ND	ND	ND	ND	ND	ND	1.1	ND	ND	ND	ND
AD-5	5/13/02	NA	NA	ND	ND	ND	1.8	ND	ND	8.4	13.5	0.59
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AD-6	5/13/02	NA	NA	ND	ND	ND	1.8	ND	ND	68.6	172	3.8
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
	09/07/10	ND	ND	0.257	ND	ND	ND	ND	ND	ND	ND	ND
LPG-1	5/13/02	NA	NA	ND	1.4	ND	2	ND	ND	ND	ND	ND
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LPG-2	5/13/02	NA	NA	ND	ND	ND	1.9	ND	ND	ND	ND	ND
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
	09/08/10	ND	ND	ND	ND	0.133	ND	ND	ND	ND	ND	ND
PER-1	5/13/02	NA	NA	ND	ND	ND	2	ND	ND	ND	ND	ND
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PER-2	5/13/02	NA	NA	ND	ND	ND	2.9	ND	ND	ND	ND	ND
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
	09/09/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PER-3	5/13/02	NA	NA	ND	ND	ND	1.9	ND	ND	ND	ND	ND
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
	09/09/10	ND	ND	ND	0.125	ND	ND	ND	ND	ND	ND	ND

All Data in ug/L unless otherwise noted.
ND - Not Detected
NA - Not Analyzed

Table 2
Site Wide Groundwater Sampling
Hess Corporation - Port Reading Refinery
750 Cliff Road
Port Reading, New Jersey

		Semi-volatile Organic Compounds											
Sample ID	**Date**	**3,3'-Dichlorobenzidine**	**Dibenzofuran**	**Di-n-butyl phthalate**	**Di-n-octyl phthalate**	**Diethyl phthalate**	**Dimethyl phthalate**	**bis(2-Ethylhexyl)phthalate**	**Isophorone**	**2-Methylnaphthalene**	**4-Nitroaniline**	**1,2,4-Trichlorobenzene**	**Total TIC, Semi-Volatile**
NJDEP GWQS		**30**	**NA**	**NA**	**100**	**6,000**	**NA**	**3**	**40**	**30**	**NA**	**9**	**500**
AB-1	5/13/02	NA	ND	ND	ND	ND	NA	1	NA	ND	NA	ND	35.1
	09/01/09	ND	ND	ND	ND	ND	ND	**165**	ND	ND	ND	NA	0
	09/08/10	ND	ND	ND	ND	ND	ND	**5.2**	ND	ND	ND	ND	0
AB-2	5/13/02	NA	ND	ND	ND	ND	NA	ND	NA	ND	NA	ND	0
AB-2R	09/01/09	ND	ND	ND	ND	ND	ND	1.1	ND	ND	ND	NA	6
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
AB-3	5/13/02	NA	ND	1	ND	ND	NA	ND	NA	50.1	NA	ND	367.3
	09/01/09	11.4	ND	ND	ND	ND	45.6	**10.7**	ND	ND	ND	NA	212.8
	09/08/10	ND	1.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	50.2
AB-4	5/13/02	NA	7.6	ND	ND	ND	NA	ND	NA	67.5	NA	ND	278.1
	09/01/09	ND	ND	ND	ND	ND	ND	**8.9**	ND	ND	ND	NA	0
	09/08/10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AB-5	5/13/02	NA	22.8	ND	ND	ND	NA	ND	NA	ND	NA	ND	65.8
	09/01/09	ND	ND	ND	ND	ND	ND	**94.3**	ND	ND	ND	NA	39
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
AD-1	5/13/02	NA	ND	ND	ND	ND	NA	ND	NA	ND	NA	ND	158
	08/31/09	ND	ND	ND	ND	ND	ND	**53.5**	ND	ND	ND	NA	0
	09/10/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.3
AD-2	5/13/02	NA	ND	ND	ND	ND	NA	**5.1**	NA	9.8	NA	2.5	**840.2**
	08/31/09	ND	ND	ND	ND	ND	ND	**21.1**	ND	ND	ND	NA	440.1
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	5	ND	ND	71.2
AD-3	5/13/02	NA	ND	ND	ND	ND	NA	1.4	NA	ND	NA	ND	0
	08/31/09	ND	ND	ND	ND	ND	ND	**273**	ND	ND	ND	NA	0
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
AD-4	5/13/02	NA	ND	ND	ND	ND	NA	2.4	NA	ND	NA	**80.5**	20.7
	08/31/09	ND	ND	ND	ND	ND	ND	2.4	ND	ND	ND	NA	13
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	18.1
AD-5	5/13/02	NA	ND	1.9	ND	ND	NA	**3.8**	NA	ND	NA	**19.1**	19.4
	08/31/09	ND	ND	ND	ND	ND	ND	2.3	ND	ND	ND	NA	52.3
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	342.6
AD-6	5/13/02	NA	ND	ND	ND	ND	NA	2.4	NA	ND	NA	**49.2**	205
	08/31/09	ND	ND	ND	ND	ND	ND	**25.7**	ND	ND	ND	NA	0
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
LPG-1	5/13/02	NA	ND	ND	ND	ND	NA	1	NA	ND	NA	ND	351.3
	09/01/09	ND	ND	ND	ND	ND	ND	1.4	ND	ND	ND	NA	0
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
LPG-2	5/13/02	NA	ND	ND	ND	ND	NA	1.6	NA	ND	NA	ND	0
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	0
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
PER-1	5/13/02	NA	ND	ND	ND	ND	NA	ND	NA	ND	NA	ND	8.4
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	0
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
PER-2	5/13/02	NA	ND	ND	ND	ND	NA	1.7	NA	ND	NA	ND	0
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	21.7
	09/09/10	ND	ND	ND	ND	ND	ND	**3.6**	ND	ND	ND	ND	400
PER-3	5/13/02	NA	ND	ND	ND	ND	NA	1.1	NA	ND	NA	ND	117.4
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	22
	09/09/10	ND	ND	ND	ND	ND	ND	**7.2**	ND	ND	ND	ND	0

All Data in ug/L unless otherwise noted.
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NA - Not Analyzed

Table 2
Site Wide Groundwater Sampling
Hess Corporation - Port Reading Refinery
750 Cliff Road
Port Reading, New Jersey

		Gauging Data					Metals								
Sample ID	**Date**	**TOC Elevation (ft)**	**Depth to Water (ft)**	**Depth to LNAPL (ft)**	**LNAPL Thickness (ft)**	**GW Elevation (ft)**	**Aluminum**	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Calcium**	**Chromium**	**Cobalt**
NJDEP GWQS		-	-	-	-	-	**200**	**6**	**3**	**6000**	**NA**	**4**	**NA**	**70**	**100**
PER-4	5/13/02	12.78	7.6	NP	NP	5.18	**460**	<5.0	**25.5**	327	NA	NA	91,300	<10	NA
	08/31/09	12.78	6.2	NP	NP	6.58	**271**	<6.0	**3.6**	<200	<1.0	**7.8**	13,100	<10	<50
	09/07/10	12.78	7.02	NP	NP	5.76	**1,930**	<6.0	**16.2**	<200	<1.0	3.1	25,800	<10	<50
PER-5	5/13/02	20.47	10.22	NP	NP	10.25	**10,300**	<5.0	<5.0	<200	NA	NA	83,000	14.7	NA
	08/31/09	20.47	10.91	NP	NP	9.56	**462**	<6.0	<3.0	<200	<1.0	<3.0	20,800	<10	<50
	09/08/10	20.47	11.41	NP	NP	9.06	**2,610**	<6.0	**3.4**	<200	<1.0	<3.0	40,200	<10	<50
PER-6	5/13/02	21.93	8.85	NP	NP	13.08	**3,540**	<5.0	<5.0	<200	NA	NA	26,300	<10	NA
PER-6R	08/31/09	23.79	2.82	NP	NP	20.97	**2,190**	<6.0	<3.0	<200	<1.0	<3.0	20,700	<10	<50
	09/10/10	23.79	2.13	NP	NP	21.66	**1,160**	<6.0	<3.0	<200	<1.0	<3.0	33,800	<10	<50
PER-7	5/13/02	11.15	8.21	NP	NP	2.94	**17,200**	<5.0	**9.7**	<200	NA	NA	19,000	36.7	NA
	09/01/09	11.15	6.6	NP	NP	4.55	**3,230**	<6.0	**3.9**	<200	<1.0	<3.0	20,200	<10	<50
	09/08/10	11.15	7.21	NP	NP	3.94	**10,400**	<6.0	**11.1**	<200	<1.0	<3.0	10,100	21.3	<50
PER-8	5/13/02	10.4	-	-	-	-	**3,930**	<5.0	**7.9**	<200	NA	NA	14,600	<10	NA
	09/01/09	10.4	4.1	NP	NP	6.3	**417**	<6.0	<3.0	<200	<1.0	**5.8**	16,700	<10	<50
	09/08/10	10.4	6.5	NP	NP	3.9	**1,050**	<6.0	**4.2**	<200	<1.0	<3.0	17,100	<10	<50
PL-1	5/13/02	11.82	3.07	3.05	0.02	8.75	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	11.82	2.38	NP	NP	9.44	<200	<6.0	**8**	1,850	<1.0	<3.0	353,000	<10	<50
	09/09/10	11.82	3.5	3.48	0.01	8.32	NA	NA	NA	NA	NA	NA	NA	NA	NA
PL-2	5/13/02	11.78	2.7	2.68	0.02	9.08	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	11.78	2.1	2.11	0.01	9.68	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/09/10	11.78	2.92	2.9	0.01	8.86	NA	NA	NA	NA	NA	NA	NA	NA	NA
PL-3	5/13/02	12.81	3.01	NP	NP	9.8	**2,910**	<5.0	**39.1**	553	NA	NA	57,500	31.4	NA
PL-3R	08/31/09	12.27	-	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/09/10	12.27	2.74	NP	NP	9.53	268	<6.0	**10.2**	<200	<1.0	<3.0	72,700	<10	<50
PL-4	5/13/02	13.3	3.12	NP	NP	10.18	**563**	**10.6**	**233**	<200	NA	NA	22,600	22.3	NA
PL-4R	09/01/09	12.4	2.71	NP	NP	9.69	**812**	<6.0	**15**	<200	<1.0	<3.0	131,000	10.5	<50
	09/09/10	12.4	3.05	NP	NP	9.35	**2,050**	<6.0	**21.6**	<200	<1.0	<3.0	134,000	10.6	<50
PL-5	5/13/02	9.08	1.82	1.8	0.02	7.26	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	9.08	1.03	1.23	0.2	8.05	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Mobile LNAPL Recovery System In Place					NA	NA	NA	NA	NA	NA	NA	NA	NA
PL-6	5/13/02	11.95	2.87	NP	NP	9.08	**428**	<5.0	<5.0	<200	NA	NA	73,100	<10	NA
PL-6R	09/02/09	11.49	2.1	NP	NP	9.39	**552**	<6.0	**18.7**	<200	<1.0	<3.0	59,100	<10	<50
	09/09/10	11.49	2.36	NP	NP	9.13	**3,700**	<6.0	**11.6**	<200	<1.0	<3.0	162,000	**1,720**	<50
PL-7	5/13/02	13.06	4.61	NP	NP	8.45	**1,650**	<5.0	**7.5**	<200	NA	NA	12,400	<10	NA
	09/01/09	13.06	4.52	NP	NP	8.54	**274**	<6.0	**12.1**	<200	<1.0	<3.0	7,390	<10	<50
	09/09/10	13.06	5.27	NP	NP	7.79	**1,510**	<6.0	**36.1**	<200	<1.0	<3.0	8,050	<10	<50
PL-8	5/13/02	12.39	4.02	NP	NP	8.37	<200	<5.0	<5.0	<200	NA	NA	11,800	<10	NA
PL-8R	09/01/09	11.96	3.42	NP	NP	8.54	**1,730**	<6.0	**18.6**	341	<1.0	<3.0	47,600	11.7	<50
	09/09/10	11.96	4.43	NP	NP	7.53	**1,340**	<6.0	**19.3**	243	<1.0	<3.0	30,800	10.5	<50
PL-9	5/13/02	11.95	2.18	NP	NP	9.77	**3,600**	<5.0	**28.2**	1,050	NA	NA	182,000	<10	NA
PL-9R	09/02/09	11.26	1.7	NP	NP	9.56	**407**	<6.0	**36.2**	658	<1.0	<3.0	88,500	<10	<50
	09/09/10	11.26	1.9	NP	NP	9.36	**3,240**	<6.0	**16.8**	218	<1.0	<3.0	155,000	20.7	<50
TC-1	5/13/02	20.48	10.48	NP	NP	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	20.48	8.29	NP	NP	12.19	**5,220**	<6.0	<3.0	<200	5.6	3.6	89,700	<10	<50
	09/07/10	20.48	9.84	NP	NP	10.64	**2,960**	<6.0	<3.0	<200	2.3	<3.0	69,500	<10	<50
TC-2	5/13/02	19.57	9.7	NP	NP	9.87	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	19.57	7.38	NP	NP	12.19	**334**	<6.0	**22.1**	207	<1.0	<3.0	14,300	<10	<50
	09/07/10	19.57	8.83	NP	NP	10.74	**2,280**	<12	**78.7**	3,650	7.6	<6.0	35,100	<50	<100

All Data in ug/L unless otherwise noted.
ND - Not Detected
NA - Not Analyzed

Table 2
Site Wide Groundwater Sampling
Hess Corporation - Port Reading Refinery
750 Cliff Road
Port Reading, New Jersey

		Metals													
Sample ID	**Date**	**Copper**	**Iron**	**Lead**	**Magnesium**	**Manganese**	**Mercury**	**Nickel**	**Potassium**	**Selenium**	**Silver**	**Sodium**	**Thallium**	**Vanadium**	**Zinc**
NJDEP GWQS		**1,300**	**300**	**5**	**NA**	**50**	**2**	**100**	**NA**	**40**	**40**	**50,000**	**2**	**60**	**2,000**
PER-4	5/13/02	<25	**51,400**	<3.0	125,000	**707**	<0.20	NA	49,600	<5.0	NA	**1,190,000**	NA	<50	<20
	08/31/09	19.1	**7,990**	3.8	<5,000	**123**	<0.20	<10	<10000	<10	<10	**81,600**	<2.0	<50	<20
	09/07/10	61.1	**16,300**	**15.6**	22,400	**368**	<0.20	10	15,800	<10	<10	**278,000**	<2.0	<50	45.6
PER-5	5/13/02	29.3	**15,500**	**10.4**	17,800	**372**	<0.20	NA	<5,000	6.5	NA	24,500	NA	<50	49.7
	08/31/09	25.9	**580**	<3.0	<5,000	21	<0.20	<10	<10,000	<10	<10	30,900	<2.0	<50	<20
	09/08/10	54.7	**4,090**	**6.5**	6,680	**101**	0.22	<10	<10,000	<10	<10	38,000	<2.0	<50	48.5
PER-6	5/13/02	42.9	**5,150**	**9.5**	5,270	**313**	<0.20	NA	<5000	5	NA	25,800	NA	<50	34.2
PER-6R	08/31/09	41.3	**2,570**	**6**	<5,000	**479**	<0.20	<10	12,800	<10	<10	32,400	<2.0	<50	31.5
	09/10/10	52	**1,880**	**4**	7,280	**288**	<0.20	<10	<10,000	<10	<10	26,600	<2.0	<50	30.7
PER-7	5/13/02	55.7	**45,600**	**34.1**	18,000	**537**	0.2	NA	15,800	<5.0	NA	**288,000**	NA	<50	98.8
	09/01/09	28.7	**7,650**	**9.4**	5,590	**71**	<0.20	10	<10000	<10	<10	**166,000**	<2.0	<50	42.1
	09/08/10	40.8	**25,800**	**33.9**	8,900	**142**	0.21	13.2	<10,000	<10	<10	**152,000**	<2.0	<50	54.1
PER-8	5/13/02	<25	**12,100**	**14.8**	<5,000	**121**	<0.20	NA	8,920	<5.0	NA	30,200	NA	<50	56.8
	09/01/09	24.1	**3,260**	**10.1**	<5,000	**420**	<0.20	12.4	<10,000	<10	<10	37,300	<2.0	<50	725
	09/08/10	26.7	**9,010**	**11.6**	5,890	**197**	<0.20	<10	<10,000	<10	<10	46,500	<2.0	<50	202
PL-1	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	<10	**18,600**	<3.0	199,000	**720**	<0.20	<10	70,200	<10	<10	**1,540,000**	<2.0	<50	<20
	09/09/10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PL-2	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/09/10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PL-3	5/13/02	<25	**84,700**	7.8	199,000	**209**	<0.20	NA	87,100	9.3	NA	**1,510,000**	NA	<50	37.4
PL-3R	08/31/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/09/10	42	35,200	<3.0	238,000	**277**	<0.20	<10	104,000	<10	<10	**1,870,000**	<2.0	<50	<20
PL-4	5/13/02	<25	**7,450**	4.9	9,430	**174**	0.26	NA	38,100	<5.0	NA	**4,460,000**	NA	**334**	<20
PL-4R	09/01/09	31.8	**3,380**	<3.0	364,000	**321**	<0.20	<10	164,000	<10	<10	**3,240,000**	<2.0	<50	<20
	09/09/10	51.9	**3,350**	4.8	408,000	**424**	<0.20	<10	154,000	<10	<10	**2,770,000**	<2.0	<50	<20
PL-5	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PL-6	5/13/02	<25	**15,700**	<3.0	85,700	**696**	<0.20	NA	34,500	<5.0	NA	**973,000**	NA	<50	<20
PL-6R	09/02/09	13.3	**47,400**	<3.0	95,900	**369**	<0.20	<10	42,300	<10	<10	**1,010,000**	<2.0	<50	<20
	09/09/10	53.1	**206,000**	<15	526,000	**662**	<0.20	58.6	196,000	<10	<10	**3,870,000**	<10	<50	35.1
PL-7	5/13/02	<25	**8,280**	<3.0	<5,000	**200**	<0.20	NA	<5,000	<5.0	NA	7,980	NA	<50	25.7
	09/01/09	<10	**14,600**	<3.0	<5,000	**123**	<0.20	<10	<10,000	<10	<10	<10,000	<2.0	<50	21.9
	09/09/10	39.8	**52,600**	3.9	<5,000	**151**	0.32	<10	<10,000	<10	<10	<10,000	<2.0	<50	65
PL-8	5/13/02	<25	192	<3.0	<5,000	<15	<0.20	NA	<5,000	<5.0	NA	10,100	NA	<50	<20
PL-8R	09/01/09	51.9	**70,400**	4.5	83,000	**140**	<0.20	<10	58,300	<10	<10	**1,350,000**	<2.0	<50	34.4
	09/09/10	42.6	**64,700**	3.6	73,300	**98**	1.3	13.8	50,400	<10	<10	**1,390,000**	<2.0	<50	31.8
PL-9	5/13/02	<25	**117,000**	**16.9**	151,000	**1,010**	<0.20	NA	68,500	<5.0	NA	**1,900,000**	NA	<50	27
PL-9R	09/02/09	<10	**44,000**	<3.0	98,400	**405**	<0.20	<10	60,000	<10	<10	**1,440,000**	<2.0	<50	<20
	09/09/10	36.9	**9,320**	<15	435,000	**114**	<0.20	<50	194,000	<10	<10	**3,290,000**	<10	<50	<20
TC-1	5/13/02	NA	**7,430**	NA	NA	**1,150**	NA	NA	NA	NA	NA	42,000	NA	NA	NA
	08/31/09	<10	**385**	<3.0	25,500	**2,040**	<0.20	68.1	<10,000	<10	<10	**157,000**	<2.0	<50	327
	09/07/10	38.1	**574**	<3.0	23,400	**1,630**	<0.20	50.5	<10,000	<10	<10	**136,000**	<2.0	<50	184
TC-2	5/13/02	NA	**26,100**	NA	NA	**412**	NA	NA	NA	NA	NA	9,430	NA	NA	NA
	08/31/09	<10	**46,700**	<3.0	<5,000	**431**	<0.20	<10	<10,000	<10	<10	11,600	<2.0	<50	<20
	09/07/10	57.3	**246,000**	**14.2**	<25,000	**1,560**	<0.80	29.8	<50,000	<20	<50	<50,000	<10	<250	50.9

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Table 2
Site Wide Groundwater Sampling
Hess Corporation - Port Reading Refinery
750 Cliff Road
Port Reading, New Jersey

		Volatile Organic Compounds											
Sample ID	**Date**	**Acetone**	**Benzene**	**2-Butanone (MEK)**	**Chlorobenzene**	**Chloroform**	**Chloroethane**	**Cyclohexane**	**1,2-Dichlorobenzene**	**1,3-Dichlorobenzene**	**1,4-Dichlorobenzene**	**Dichlorodifluoromethane**	**1,1-Dichloroethane**
NJDEP GWQS		**6,000**	**1**	**300**	**50**	**70**	**5**	**NA**	**600**	**600**	**75**	**1,000**	**50**
PER-4	5/13/02	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/07/10	43.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PER-5	5/13/02	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PER-6	5/13/02	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND
PER-6R	08/31/09	ND	ND	ND	ND	0.43	ND	ND	ND	ND	ND	ND	ND
	09/10/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PER-7	5/13/02	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PER-8	5/13/02	ND	ND	**14,300**	ND	ND	ND	NA	NA	NA	NA	NA	ND
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	ND	ND	ND	ND	ND	0.56	ND	ND	ND	ND
PL-1	5/13/02	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA
	09/02/09	11	**29.1**	ND	**667**	ND	ND	ND	6.5	9	33.1	ND	ND
	09/09/10	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA
PL-2	5/13/02	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA
	08/31/09	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA
	09/09/10	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA
PL-3	5/13/02	ND	**109**	ND	0.7	ND	ND	NA	NA	NA	NA	NA	ND
PL-3R	08/31/09	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA
	09/09/10	ND	63.5	ND	0.56	ND	ND	7.4	ND	ND	ND	ND	ND
PL-4	5/13/02	ND	**5.7**	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND
PL-4R	09/01/09	ND	0.79	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/09/10	ND	**3.6**	ND	0.56	ND	ND	ND	0.3	ND	0.41	ND	ND
PL-5	5/13/02	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA
	08/31/09	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA
		NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA
PL-6	5/13/02	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND
PL-6R	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/09/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PL-7	5/13/02	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/09/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PL-8	5/13/02	24.3	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND
PL-8R	09/01/09	ND	**11**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/09/10	ND	ND	ND	ND	ND	ND	5.5	ND	ND	ND	ND	ND
PL-9	5/13/02	14.8	**1.1**	ND	1.2	ND	ND	NA	NA	NA	NA	NA	ND
PL-9R	09/02/09	12.2	**3**	ND	1.2	ND	ND	ND	ND	ND	ND	ND	ND
	09/09/10	ND	**1.7**	ND	0.97	ND	ND	ND	ND	ND	ND	ND	ND
TC-1	5/13/02	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND
	08/31/09	ND	ND	ND	ND	0.52	ND	ND	ND	ND	ND	ND	ND
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TC-2	5/13/02	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Table 2
Site Wide Groundwater Sampling
Hess Corporation - Port Reading Refinery
750 Cliff Road
Port Reading, New Jersey

		Volatile Organic Compounds													
Sample ID	**Date**	**1,2-Dichloroethane**	**1,1-Dichloroethene**	**cis-1,2-Dichloroethene**	**trans-1,2-Dichloroethene**	**1,2-Dichloropropane**	**1,4-Dioxane**	**Ethylbenzene**	**Freon 113**	**Isopropylbenzene**	**Methylcyclohexane**	**Methyl Tert Butyl Ether (MTBE)**	**Tert Butyl Alcohol**	**Methylene chloride**	**Tetrachloroethene**
NJDEP GWQS		**2**	**1**	**70**	**100**	**1**	**10**	**700**	**NA**	**NA**	**NA**	**70**	**100**	**3**	**1**
PER-4	5/13/02	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.78	27.7	ND	ND
PER-5	5/13/02	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PER-6	5/13/02	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND
PER-6R	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/10/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PER-7	5/13/02	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PER-8	5/13/02	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PL-1	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	ND	ND	0.71	0.75	ND	ND	2.2	ND	1.1	1.4	4.7	**2,280**	ND	ND
	09/09/10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PL-2	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/09/10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PL-3	5/13/02	ND	ND	ND	ND	ND	NA	1	NA	NA	NA	NA	NA	ND	ND
PL-3R	08/31/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/09/10	ND	ND	ND	ND	ND	ND	6	ND	1.7	5	**111**	98	ND	ND
PL-4	5/13/02	ND	ND	ND	ND	ND	NA	14	NA	NA	NA	NA	NA	ND	ND
PL-4R	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/09/10	ND	ND	ND	ND	ND	ND	ND	ND	0.57	ND	1.5	ND	ND	ND
PL-5	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PL-6	5/13/02	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND
PL-6R	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.3	**206**	ND	ND
	09/09/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.7	**103**	ND	ND
PL-7	5/13/02	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/09/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PL-8	5/13/02	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND
PL-8R	09/01/09	ND	ND	ND	ND	ND	ND	5.2	ND	10.2	ND	ND	ND	ND	ND
	09/09/10	ND	ND	ND	ND	ND	ND	ND	ND	15.4	1.1	0.94	ND	ND	ND
PL-9	5/13/02	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND
PL-9R	09/02/09	ND	ND	ND	ND	ND	ND	1.2	ND	2.6	0.53	39.9	**174**	ND	ND
	09/09/10	ND	ND	ND	ND	ND	ND	ND	ND	2.3	ND	39.1	**136**	ND	ND
TC-1	5/13/02	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TC-2	5/13/02	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

All Data in ug/L unless otherwise noted.
ND - Not Detected
NA - Not Analyzed

Table 2
Site Wide Groundwater Sampling
Hess Corporation - Port Reading Refinery
750 Cliff Road
Port Reading, New Jersey

		Volatile Organic Compounds								
Sample ID	Date	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Vinyl chloride	Xylene (total)	Total TIC, Volatile
NJDEP GWQS		600	NA	9	30	3	1	1	1,000	500
PER-4	5/13/02	ND	NA	NA	ND	ND	ND	ND	ND	6.4
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	0
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	24
PER-5	5/13/02	ND	NA	NA	1.1	ND	ND	ND	ND	**1,900**
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	0
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	0
PER-6	5/13/02	ND	NA	NA	ND	ND	ND	ND	ND	7.3
PER-6R	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	0
	09/10/10	ND	ND	ND	ND	ND	ND	ND	ND	0
PER-7	5/13/02	ND	NA	NA	ND	ND	ND	ND	ND	**1,012**
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	0
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	0
PER-8	5/13/02	16.5	NA	NA	ND	ND	ND	ND	ND	0
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	0
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	0
PL-1	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	0.68	ND	ND	ND	ND	ND	0.74	1.5	201.4
	09/09/10	NA	NA	NA	NA	NA	NA	NA	NA	NA
PL-2	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/09/10	NA	NA	NA	NA	NA	NA	NA	NA	NA
PL-3	5/13/02	1.5	NA	NA	ND	ND	ND	ND	14.2	450
PL-3R	08/31/09	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/09/10	1.1	ND	ND	ND	ND	ND	ND	21.2	421
PL-4	5/13/02	0.92	NA	NA	ND	ND	ND	ND	42.3	**524.5**
PL-4R	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	0
	09/09/10	ND	ND	ND	ND	ND	ND	ND	ND	16.5
PL-5	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	NA	NA	NA	NA	NA	NA	NA	NA	NA
		NA	NA	NA	NA	NA	NA	NA	NA	NA
PL-6	5/13/02	ND	NA	NA	ND	ND	ND	ND	ND	36.1
PL-6R	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	0
	09/09/10	ND	ND	ND	ND	ND	ND	ND	ND	0
PL-7	5/13/02	ND	NA	NA	ND	ND	ND	ND	ND	0
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	0
	09/09/10	ND	ND	ND	ND	ND	ND	ND	ND	0
PL-8	5/13/02	ND	NA	NA	ND	ND	ND	ND	ND	13.9
PL-8R	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	122.2
	09/09/10	ND	ND	ND	ND	ND	ND	ND	ND	216.9
PL-9	5/13/02	ND	NA	NA	ND	ND	ND	ND	ND	226.9
PL-9R	09/02/09	ND	ND	ND	ND	ND	ND	ND	4	66.3
	09/09/10	ND	ND	ND	ND	ND	ND	ND	0.61	35.1
TC-1	5/13/02	ND	NA	NA	ND	ND	ND	ND	ND	0
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	0
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	0
TC-2	5/13/02	ND	NA	NA	ND	ND	ND	ND	ND	35.8
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	30.3
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	6.4

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Table 2
Site Wide Groundwater Sampling
Hess Corporation - Port Reading Refinery
750 Cliff Road
Port Reading, New Jersey

		Semi-volatile Organic Compounds										
Sample ID	Date	Pentachlorophenol	4-Chloro-3-methyl phenol	Acetophenone	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene
NJDEP GWQS		0.3	NA	700	400	100	2,000	0.1	0.1	0.2	100	0.5
PER-4	5/13/02	NA	NA	ND	2.8	NA	ND	NA	NA	NA	NA	NA
	08/31/09	ND	ND	ND	0.258	ND	ND	ND	ND	ND	ND	ND
	09/07/10	ND	ND	ND	1.84	ND	ND	ND	ND	ND	ND	ND
PER-5	5/13/02	NA	NA	ND	ND	NA	ND	NA	NA	NA	NA	NA
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PER-6	5/13/02	NA	NA	ND	ND	NA	ND	NA	NA	NA	NA	NA
PER-6R	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/10/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PER-7	5/13/02	NA	NA	ND	ND	NA	ND	NA	NA	NA	NA	NA
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PER-8	5/13/02	NA	NA	ND	ND	NA	ND	NA	NA	NA	NA	NA
	09/01/09	ND	ND	ND	ND	ND	ND	**0.154**	**0.222**	**0.659**	0.338	0.187
	09/08/10	ND	ND	ND	ND	ND	ND	**0.503**	**0.544**	**1.09**	0.973	**0.639**
PL-1	5/13/02	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	ND	ND	ND	1.68	ND	0.589	**0.279**	ND	ND	ND	ND
	09/09/10	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA
PL-2	5/13/02	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA
	09/09/10	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA
PL-3	5/13/02	NA	NA	ND	1.2	NA	ND	NA	NA	NA	NA	NA
PL-3R	08/31/09	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA
	09/09/10	ND	ND	0.74	0.396	ND	ND	ND	ND	ND	ND	ND
PL-4	5/13/02	NA	NA	ND	26	NA	1.5	NA	NA	NA	NA	NA
PL-4R	09/01/09	ND	ND	ND	0.921	ND	0.385	ND	ND	ND	ND	ND
	09/09/10	ND	ND	ND	1.03	ND	0.255	ND	ND	ND	ND	ND
PL-5	5/13/02	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA
		NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA
PL-6	5/13/02	NA	NA	ND	ND	NA	ND	NA	NA	NA	NA	NA
PL-6R	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/09/10	ND	ND	ND	0.314	ND	ND	ND	ND	ND	ND	ND
PL-7	5/13/02	NA	NA	ND	ND	NA	ND	NA	NA	NA	NA	NA
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/09/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PL-8	5/13/02	NA	NA	ND	ND	NA	ND	NA	NA	NA	NA	NA
PL-8R	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/09/10	ND	ND	ND	0.401	ND	ND	ND	ND	ND	ND	ND
PL-9	5/13/02	NA	NA	ND	10.2	NA	ND	NA	NA	NA	NA	NA
PL-9R	09/02/09	ND	ND	ND	ND	0.804	ND	ND	ND	ND	ND	ND
	09/09/10	ND	ND	ND	1.45	ND	0.339	ND	ND	ND	ND	ND
TC-1	5/13/02	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TC-2	5/13/02	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	ND	0.54	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Table 2
Site Wide Groundwater Sampling
Hess Corporation - Port Reading Refinery
750 Cliff Road
Port Reading, New Jersey

		Semi-volatile Organic Compounds										
Sample ID	Date	1,1'-Biphenyl	2,4-Dimethylphenol	Chrysene	2-Methylphenol	3&4-Methylphenol	Phenol	Fluoranthene	2,4,5-Trichlorophenol	Fluorene	2,4,6-Trichlorophenol	Hexachlorobenzene
NJDEP GWQS		400	100	5	NA	NA	2,000	300	700	300	20	0.02
PER-4	5/13/02	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	0.111	ND	ND
PER-5	5/13/02	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PER-6	5/13/02	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA
PER-6R	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/10/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PER-7	5/13/02	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PER-8	5/13/02	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA
	09/01/09	ND	ND	0.405	ND	ND	ND	0.558	ND	ND	ND	ND
	09/08/10	ND	ND	0.707	ND	ND	ND	1.42	ND	ND	ND	ND
PL-1	5/13/02	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	ND	ND	0.256	ND	ND	ND	0.62	ND	1.97	ND	ND
	09/09/10	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PL-2	5/13/02	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/09/10	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PL-3	5/13/02	ND	ND	NA	ND	ND	1.8	ND	NA	1.5	NA	NA
PL-3R	08/31/09	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/09/10	ND	ND	ND	ND	ND	ND	ND	ND	0.391	ND	ND
PL-4	5/13/02	ND	6.3	NA	8.6	ND	ND	0.92	NA	12.5	NA	NA
PL-4R	09/01/09	ND	ND	ND	ND	ND	ND	0.37	ND	0.817	ND	ND
	09/09/10	ND	ND	ND	ND	ND	ND	0.579	ND	0.19	ND	ND
PL-5	5/13/02	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PL-6	5/13/02	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA
PL-6R	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/09/10	ND	ND	ND	ND	ND	ND	ND	ND	0.246	ND	ND
PL-7	5/13/02	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/09/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PL-8	5/13/02	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA
PL-8R	09/01/09	ND	ND	ND	ND	ND	4.5	ND	ND	0.997	ND	ND
	09/09/10	ND	ND	ND	ND	ND	ND	ND	ND	1.8	ND	ND
PL-9	5/13/02	ND	ND	NA	ND	ND	ND	ND	NA	2.8	NA	NA
PL-9R	09/02/09	ND	ND	ND	ND	ND	ND	ND	2.57	ND	ND	**6.3**
	09/09/10	ND	ND	ND	ND	ND	ND	0.256	ND	1	ND	ND
TC-1	5/13/02	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TC-2	5/13/02	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	0.566	ND	ND
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Table 2
Site Wide Groundwater Sampling
Hess Corporation - Port Reading Refinery
750 Cliff Road
Port Reading, New Jersey

		Semi-volatile Organic Compounds										
Sample ID	Date	Indeno(1,2,3-cd)pyrene	Benzaldehyde	Naphthalene	Phenanthrene	Pyrene	Butyl benzyl phthalate	4-Chloroaniline	Carbazole	1,4-Dichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene
NJDEP GWQS		0.2	NA	300	100	200	100	30	NA	75	600	600
PER-4	5/13/02	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
	09/07/10	ND	ND	0.138	ND	ND	ND	ND	ND	ND	ND	ND
PER-5	5/13/02	NA	NA	ND	ND	ND	2	ND	ND	ND	ND	ND
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PER-6	5/13/02	NA	NA	ND	ND	ND	1.9	ND	ND	ND	ND	ND
PER-6R	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
	09/10/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PER-7	5/13/02	NA	NA	ND	ND	ND	2.1	ND	ND	ND	ND	ND
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PER-8	5/13/02	NA	NA	ND	ND	ND	2	ND	ND	ND	ND	ND
	09/01/09	**0.291**	ND	ND	0.162	0.452	ND	ND	ND	NA	NA	NA
	09/08/10	**0.75**	ND	ND	0.504	0.975	ND	ND	ND	ND	ND	ND
PL-1	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	ND	ND	0.646	2.1	0.813	ND	ND	0.96	NA	NA	NA
	09/09/10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PL-2	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/09/10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PL-3	5/13/02	NA	NA	ND	1.1	ND	ND	ND	ND	ND	ND	ND
PL-3R	08/31/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/09/10	ND	ND	0.442	0.62	ND	ND	ND	ND	ND	ND	ND
PL-4	5/13/02	NA	NA	98.8	8.3	ND	ND	ND	25.6	ND	ND	ND
PL-4R	09/01/09	ND	ND	ND	1.92	0.278	ND	ND	0.45	NA	NA	NA
	09/09/10	ND	ND	ND	ND	0.455	ND	ND	ND	ND	ND	ND
PL-5	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PL-6	5/13/02	NA	NA	ND	ND	ND	ND	0.64	ND	ND	ND	ND
PL-6R	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
	09/09/10	ND	ND	0.602	0.485	ND	ND	ND	ND	ND	ND	ND
PL-7	5/13/02	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
	09/09/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PL-8	5/13/02	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
PL-8R	09/01/09	ND	ND	1.73	ND	ND	ND	ND	ND	NA	NA	NA
	09/09/10	ND	ND	15	2.1	ND	ND	ND	0.4	ND	ND	ND
PL-9	5/13/02	NA	NA	7.7	1.1	ND	ND	1.4	6.5	ND	ND	ND
PL-9R	09/02/09	ND	ND	2.9	2.38	ND	ND	ND	3.2	NA	NA	NA
	09/09/10	ND	ND	ND	0.262	0.2	ND	ND	ND	ND	ND	ND
TC-1	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TC-2	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	ND	ND	ND	0.105	ND	ND	ND	ND	NA	NA	NA
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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NA - Not Analyzed

Table 2
Site Wide Groundwater Sampling
Hess Corporation - Port Reading Refinery
750 Cliff Road
Port Reading, New Jersey

		Semi-volatile Organic Compounds											
Sample ID	**Date**	**3,3'-Dichlorobenzidine**	**Dibenzofuran**	**Di-n-butyl phthalate**	**Di-n-octyl phthalate**	**Diethyl phthalate**	**Dimethyl phthalate**	**bis(2-Ethylhexyl)phthalate**	**Isophorone**	**2-Methylnaphthalene**	**4-Nitroaniline**	**1,2,4-Trichlorobenzene**	**Total TIC, Semi-Volatile**
NJDEP GWQS		**30**	**NA**	**NA**	**100**	**6,000**	**NA**	**3**	**40**	**30**	**NA**	**9**	**500**
PER-4	5/13/02	NA	ND	ND	ND	ND	NA	ND	NA	ND	NA	ND	0
	08/31/09	ND	ND	ND	ND	ND	ND	1.1	ND	ND	ND	NA	251.5
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
PER-5	5/13/02	NA	ND	ND	ND	1.1	NA	2.2	NA	ND	NA	ND	8.9
	08/31/09	ND	ND	ND	ND	ND	ND	2	ND	ND	ND	NA	0
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
PER-6	5/13/02	NA	ND	ND	ND	ND	NA	1	NA	ND	NA	ND	11.2
PER-6R	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	0
	09/10/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
PER-7	5/13/02	NA	ND	ND	ND	ND	NA	2.8	NA	ND	NA	ND	9.4
	09/01/09	ND	ND	ND	ND	ND	ND	1.4	ND	ND	ND	NA	0
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
PER-8	5/13/02	NA	ND	ND	ND	ND	NA	2.9	NA	ND	NA	ND	275
	09/01/09	ND	ND	ND	ND	ND	ND	1.3	ND	ND	ND	NA	**529.4**
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
PL-1	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	ND	0.81	ND	ND	ND	ND	2.6	ND	ND	ND	NA	314.2
	09/09/10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PL-2	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/09/10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PL-3	5/13/02	NA	0.56	ND	3.8	ND	NA	2	NA	5.7	NA	ND	243.1
PL-3R	08/31/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/09/10	ND	ND	ND	ND	ND	ND	ND	ND	2.1	ND	ND	61.3
PL-4	5/13/02	NA	11	ND	ND	ND	NA	ND	NA	10.1	NA	ND	120.8
PL-4R	09/01/09	ND	0.56	ND	ND	ND	ND	**177**	ND	ND	ND	NA	26.5
	09/09/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**985**
PL-5	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PL-6	5/13/02	NA	ND	ND	ND	ND	NA	ND	NA	ND	NA	ND	243.1
PL-6R	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	12.1
	09/09/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3,131.7**
PL-7	5/13/02	NA	ND	ND	ND	ND	NA	ND	NA	ND	NA	ND	4.1
	09/01/09	ND	ND	ND	ND	ND	ND	**204**	ND	ND	ND	NA	0
	09/09/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
PL-8	5/13/02	NA	ND	ND	ND	ND	NA	ND	NA	ND	NA	ND	0
PL-8R	09/01/09	ND	ND	ND	ND	ND	61.3	ND	27.5	ND	24.2	NA	**848**
	09/09/10	ND	0.72	ND	ND	ND	ND	ND	ND	**30.6**	ND	ND	250.9
PL-9	5/13/02	NA	0.92	ND	ND	ND	NA	ND	NA	1.2	NA	ND	268.8
PL-9R	09/02/09	ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND	NA	55.4
	09/09/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
TC-1	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	0
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
TC-2	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	0
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0

All Data in ug/L unless otherwise noted.
ND - Not Detected
NA - Not Analyzed

Table 2
Site Wide Groundwater Sampling
Hess Corporation - Port Reading Refinery
750 Cliff Road
Port Reading, New Jersey

		Gauging Data					Metals								
Sample ID	**Date**	**TOC Elevation (ft)**	**Depth to Water (ft)**	**Depth to LNAPL (ft)**	**LNAPL Thickness (ft)**	**GW Elevation (ft)**	**Aluminum**	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Calcium**	**Chromium**	**Cobalt**
NJDEP GWQS		**-**	**-**	**-**	**-**	**-**	**200**	**6**	**3**	**6000**	**NA**	**4**	**NA**	**70**	**100**
TC-3	5/13/02	19.55	9.48	NP	NP	10.07	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	19.55	7.26	NP	NP	12.29	**676**	<6.0	**3.7**	<200	<1.0	**26**	61,400	<10	<50
	09/07/10	19.55	8.6	NP	NP	10.95	**1,840**	<6.0	**7.4**	<200	<1.0	**37.5**	30,000	<10	<50
TF-1	5/13/02	10.82	2.81	2.78	0.03	8.01	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/01/09	10.82	2.44	NP	NP	8.38	**893**	<6.0	**8.7**	<200	<1.0	<3.0	11,800	<10	<50
	09/09/10	10.82	3.36	NP	NP	7.46	**591**	<6.0	**20.3**	<200	<1.0	<3.0	28,800	<10	<50
TF-2	5/13/02	10.13	-	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	10.13	-	1.81	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TF-3	5/13/02	10.73	2.02	NP	NP	8.71	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/01/09	10.73	2.16	NP	NP	8.57	<200	<6.0	**9.3**	<200	<1.0	<3.0	9,890	<10	<50
	09/09/10	10.73	3.06	NP	NP	7.67	**857**	<6.0	**22.2**	<200	<1.0	<3.0	17,800	27.3	<50
TM-1	5/13/02	-	-	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	22.36	10.98	NP	NP	11.38	**1,120**	<30	<15	<200	2.8	3.5	194,000	<50	76.3
	09/08/10	22.36	10.7	NP	NP	11.66	**1,230**	<6.0	<3.0	<200	5	<3.0	188,000	<10	67.6
TM-2	5/13/02	-	-	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	22.45	10.16	NP	NP	12.29	**1,850**	<6.0	**11.8**	<200	<1.0	<3.0	90,900	<10	<50
	09/08/10	22.45	11.24	NP	NP	11.21	<400	<12	<6.0	<400	<2.0	<6.0	<10,000	<20	<100
TM-3	5/13/02	-	-	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	22.5	10.35	NP	NP	12.15	**225**	<6.0	**38.3**	<200	<1.0	<3.0	48,900	<10	<50
	09/08/10	22.5	11.47	NP	NP	11.03	<200	<6.0	**48.8**	<200	<1.0	<3.0	56,500	<10	<50
TM-4	5/13/02	-	-	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	21.14	8.36	NP	NP	12.78	<200	<6.0	**26.2**	<200	<1.0	<3.0	12,900	<10	<50
	09/08/10	21.14	9.68	NP	NP	11.46	**913**	<6.0	**47.5**	<200	<1.0	<3.0	10,500	<10	<50
TM-5	5/13/02	-	-	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	18.47	8.28	NP	NP	10.19	**1,210**	<6.0	<3.0	<200	<1.0	<3.0	18,500	<10	<50
	09/10/10	18.47	8.26	NP	NP	10.21	**1,010**	<6.0	<3.0	<200	<5.0	<15	383,000	<50	<50
TM-6	5/13/02	17.68	-	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	17.68	6.18	6.2	0.02	11.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/10/10	17.68	7.25	7.2	0.02	10.43	NA	NA	NA	NA	NA	NA	NA	NA	NA
TM-7	5/13/02	-	-	-	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	17.03	7	NP	NP	10.03	<200	<6.0	**5.2**	<200	<1.0	<3.0	121,000	<10	<50
	09/10/10	17.03	7.7	NP	NP	9.33	<200	<6.0	**3.1**	<200	<2.0	<3.0	276,000	<10	<50
TR-1	5/13/02	15.56	6.46	NP	NP	9.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Well Paved Over					NA	NA	NA	NA	NA	NA	NA	NA	NA
TR-2	5/13/02	14.66	5.7	5.41	0.29	8.96	NA	NA	NA	NA	NA	NA	NA	NA	NA
TR-2R	08/31/09	14.66	4.12	4.14	0.02	10.54	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/07/10	14.66	5.04	NP	NP	9.62	**323**	<6.0	9.2	1,400	<1.0	<3.0	214,000	<10	<50
TR-3	5/13/02	12.96	4.48	NP	NP	8.48	NA	NA	NA	NA	NA	NA	NA	NA	NA
TR-3R	09/02/09	12.93	3.34	NP	NP	9.59	**13,000**	<6.0	**9.8**	361	<1.0	<3.0	96,000	39.9	<50
		Could Not Locate					NA	NA	NA	NA	NA	NA	NA	NA	NA
TR-4	5/13/02	14.71	5	NP	NP	9.71	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	14.71	4.73	NP	NP	9.98	**1,010**	<6.0	**4.5**	890	<1.0	<3.0	391,000	<10	<50
	09/10/10	14.71	5	NP	NP	9.71	**18,700**	<6.0	**73.2**	568	<3.0	**6.5**	340,000	18.2	<50

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Table 2
Site Wide Groundwater Sampling
Hess Corporation - Port Reading Refinery
750 Cliff Road
Port Reading, New Jersey

		Metals													
Sample ID	**Date**	**Copper**	**Iron**	**Lead**	**Magnesium**	**Manganese**	**Mercury**	**Nickel**	**Potassium**	**Selenium**	**Silver**	**Sodium**	**Thallium**	**Vanadium**	**Zinc**
NJDEP GWQS		**1,300**	**300**	**5**	**NA**	**50**	**2**	**100**	**NA**	**40**	**40**	**50,000**	**2**	**60**	**2,000**
TC-3	5/13/02	NA	**15,800**	NA	NA	**2,580**	NA	NA	NA	NA	NA	23,600	NA	NA	NA
	08/31/09	156	**21,300**	**42.5**	10,400	**270**	<0.20	<10	<10,000	<10	<10	16,800	<2.0	<50	77.2
	09/07/10	148	**9,190**	**40.5**	9,140	**1,310**	<0.20	28.1	<10,000	<10	<10	18,600	<2.0	<50	89
TF-1	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/01/09	22.3	**5,050**	**5.4**	<5,000	47	<0.20	<10	<10,000	<10	<10	28,900	<2.0	<50	<20
	09/09/10	34.7	**27,100**	**6**	<5,000	**202**	<0.20	<10	<10,000	<10	<10	23,500	<2.0	<50	29.9
TF-2	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TF-3	5/13/02	NA	**5,810**	NA	NA	**52**	NA	NA	NA	NA	NA	10,900	NA	NA	NA
	09/01/09	<10	**4,800**	<3.0	5,220	25	<0.20	<10	<10,000	<10	<10	**65,900**	<2.0	<50	<20
	09/09/10	103	**18,400**	**12.5**	6,060	80	<0.20	18.6	<10,000	<10	<10	**47,300**	<2.0	<50	97.4
TM-1	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	13.3	**2,290**	<15	106,000	**33,400**	<0.20	**223**	<10,000	<50	<10	**491,000**	<10	<50	144
	09/08/10	<10	**1,760**	<9.0	101,000	**32,400**	<0.20	**206**	<10,000	<30	<10	**479,000**	<10	<50	142
TM-2	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	<10	**101,000**	<3.0	47,600	**5,890**	<0.20	<10	11,600	<10	<10	**118,000**	<2.0	<50	33.4
	09/08/10	<20	<200	<6.0	<10,000	<30	<0.20	<20	<20,000	<20	<20	<20,000	<4.0	<100	<40
TM-3	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	11.1	**163,000**	<3.0	19,300	**4,920**	<0.20	<10	18,100	<10	<10	**58,100**	<2.0	<50	<20
	09/08/10	<10	**194,000**	<3.0	22,400	**5,220**	<0.20	<10	20,000	<10	<10	**76,500**	<2.0	<50	<20
TM-4	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	<10	**63,500**	<3.0	5,240	**1,370**	<0.20	<10	<10,000	<10	<10	16,800	<2.0	<50	<20
	09/08/10	27.7	**93,800**	5	<5,000	**1,180**	<0.20	<10	<10,000	<10	<10	<10,000	<2.0	<50	43.3
TM-5	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	21.9	**2,520**	4.4	8,010	**5,610**	<0.20	<10	<10,000	<10	<10	48,900	<2.0	<50	<20
	09/10/10	36.4	**1,180**	<15	259,000	**61,900**	<0.20	35.6	<10,000	<50	<10	1,400,000	<10	<50	<20
TM-6	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/10/10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TM-7	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	<10	**18,600**	<3.0	46,500	**11,900**	<0.20	20	<10,000	<20	<10	**137,000**	<4.0	<50	<20
	09/10/10	<10	**8,510**	<3.0	88,300	**16,000**	<0.20	44.5	<10,000	<10	<10	**201,000**	<4.0	<50	33.5
TR-1	5/13/02	NA	**16,000**	3.7	NA	**156**	NA	NA	NA	NA	NA	27,100	NA	NA	NA
		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TR-2	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TR-2R	08/31/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/07/10	<10	**10,000**	<3.0	77,500	**8,530**	<0.20	<10	30,900	<10	<10	**324,000**	<2.0	<50	<20
TR-3	5/13/02	NA	**8,810**	NA	NA	**52**	NA	NA	NA	NA	NA	10,900	NA	NA	NA
TR-3R	09/02/09	46.3	**26,200**	**13.5**	18,100	**2,390**	<0.20	25.3	<10,000	<10	<10	**61,200**	<2.0	<50	57.4
		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TR-4	5/13/02	NA	**21,600**	**30.1**	NA	**11,200**	NA	NA	NA	NA	NA	**163,000**	NA	NA	NA
	08/31/09	28.9	**4,100**	3.8	129,000	**20,000**	<0.20	<10	<10,000	<10	<10	**298,000**	<2.0	<50	30.8
	09/10/10	54	**11,200**	**81.8**	104,000	**20,100**	<0.20	55.8	<10,000	<10	<10	**246,000**	<6.0	**95.5**	207

All Data in ug/L unless otherwise noted.
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NA - Not Analyzed

Table 2
Site Wide Groundwater Sampling
Hess Corporation - Port Reading Refinery
750 Cliff Road
Port Reading, New Jersey

		Volatile Organic Compounds											
Sample ID	**Date**	**Acetone**	**Benzene**	**2-Butanone (MEK)**	**Chlorobenzene**	**Chloroform**	**Chloroethane**	**Cyclohexane**	**1,2-Dichlorobenzene**	**1,3-Dichlorobenzene**	**1,4-Dichlorobenzene**	**Dichlorodifluoromethane**	**1,1-Dichloroethane**
NJDEP GWQS		**6,000**	**1**	**300**	**50**	**70**	**5**	**NA**	**600**	**600**	**75**	**1,000**	**50**
TC-3	5/13/02	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TF-1	5/13/02	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/09/10	ND	ND	ND	ND	ND	1.2	ND	ND	ND	ND	ND	ND
TF-2	5/13/02	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA
	08/31/09	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TF-3	5/13/02	12.5	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/09/10	ND	**6.2**	ND	0.68	ND	ND	ND	ND	ND	ND	ND	ND
TM-1	5/13/02	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TM-2	5/13/02	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TM-3	5/13/02	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TM-4	5/13/02	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TM-5	5/13/02	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/10/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TM-6	5/13/02	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA
	08/31/09	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA
	09/10/10	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA
TM-7	5/13/02	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA
	09/02/09	ND	**35.1**	ND	1.1	ND	ND	17.2	ND	ND	ND	ND	ND
	09/10/10	ND	**87.2**	ND	1.6	ND	ND	70.2	ND	ND	ND	ND	ND
TR-1	5/13/02	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	1.6
		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TR-2	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TR-2R	08/31/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/07/10	ND	**38,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TR-3	5/13/02	ND	**2,120**	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND
TR-3R	09/02/09	ND	**1,400**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TR-4	5/13/02	ND	**1,630**	ND	ND	ND	ND	NA	NA	NA	NA	NA	ND
	08/31/09	ND	**8,750**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/10/10	ND	**2,260**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

All Data in ug/L unless otherwise noted.
ND - Not Detected
NA - Not Analyzed

Table 2
Site Wide Groundwater Sampling
Hess Corporation - Port Reading Refinery
750 Cliff Road
Port Reading, New Jersey

		Volatile Organic Compounds													
Sample ID	**Date**	**1,2-Dichloroethane**	**1,1-Dichloroethene**	**cis-1,2-Dichloroethene**	**trans-1,2-Dichloroethene**	**1,2-Dichloropropane**	**1,4-Dioxane**	**Ethylbenzene**	**Freon 113**	**Isopropylbenzene**	**Methylcyclohexane**	**Methyl Tert Butyl Ether (MTBE)**	**Tert Butyl Alcohol**	**Methylene chloride**	**Tetrachloroethene**
NJDEP GWQS		**2**	**1**	**70**	**100**	**1**	**10**	**700**	**NA**	**NA**	**NA**	**70**	**100**	**3**	**1**
TC-3	5/13/02	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TF-1	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	29.5	ND	ND	ND	ND	ND
	09/09/10	ND	ND	ND	ND	ND	ND	ND	ND	13.4	0.4	ND	13.2	ND	ND
TF-2	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TF-3	5/13/02	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA	NA	NA	ND	ND
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/09/10	ND	ND	ND	ND	ND	ND	ND	ND	1.9	ND	ND	**170**	ND	ND
TM-1	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.37	ND	ND	ND
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.3	ND	ND	ND
TM-2	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.3	ND	ND	**1.6**
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5	ND	ND	0.6
TM-3	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	ND	ND
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.6	ND	ND	ND
TM-4	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.68	ND	ND	ND
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TM-5	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/10/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TM-6	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/10/10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TM-7	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	ND	ND	ND	ND	ND	ND	12	ND	5.5	16	34.3	**180**	ND	ND
	09/10/10	ND	ND	ND	ND	ND	ND	26.5	ND	18.9	71.8	21.9	ND	ND	ND
TR-1	5/13/02	ND	**5.8**	ND	ND	ND	NA	ND	NA	NA	NA	ND	NA	ND	ND
		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TR-2	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TR-2R	08/31/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/07/10	ND	ND	ND	ND	ND	ND	**418,000**	ND	42,800	8,540	**1,540,000**	ND	ND	ND
TR-3	5/13/02	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA	**7,980**	NA	ND	ND
TR-3R	09/02/09	ND	ND	ND	ND	ND	ND	180	ND	14.3	7.4	**6,470**	**50,500**	ND	ND
		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TR-4	5/13/02	ND	ND	ND	ND	ND	NA	ND	NA	NA	NA	**1,280,000**	NA	ND	ND
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2,070,000**	**295,000**	ND	ND
	09/10/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1,580,000**	ND	ND	ND

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ND - Not Detected
NA - Not Analyzed

Table 2
Site Wide Groundwater Sampling
Hess Corporation - Port Reading Refinery
750 Cliff Road
Port Reading, New Jersey

		Volatile Organic Compounds								
Sample ID	Date	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Vinyl chloride	Xylene (total)	Total TIC, Volatile
NJDEP GWQS		600	NA	9	30	3	1	1	1,000	500
TC-3	5/13/02	ND	NA	NA	ND	ND	ND	ND	ND	0
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	0
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	0
TF-1	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	**668**
	09/09/10	ND	ND	ND	ND	ND	ND	ND	ND	**738**
TF-2	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TF-3	5/13/02	ND	NA	NA	ND	ND	ND	ND	ND	25.5
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	0
	09/09/10	ND	ND	ND	ND	ND	ND	ND	1.6	8.4
TM-1	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	0
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	0
TM-2	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	0
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	0
TM-3	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	0
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	0
TM-4	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	0
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	0
TM-5	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	0
	09/10/10	ND	ND	ND	ND	ND	ND	ND	ND	0
TM-6	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/10/10	NA	NA	NA	NA	NA	NA	NA	NA	NA
TM-7	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	ND	ND	ND	ND	ND	ND	ND	9	227.8
	09/10/10	ND	ND	ND	ND	ND	ND	ND	17.2	**649**
TR-1	5/13/02	ND	NA	NA	1.3	ND	ND	ND	ND	0
		NA	NA	NA	NA	NA	NA	NA	NA	NA
TR-2	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA
TR-2R	08/31/09	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/07/10	**405,000**	ND	ND	ND	ND	ND	ND	**2,390,000**	**3,960,000**
TR-3	5/13/02	ND	NA	NA	ND	ND	**8.4**	ND	ND	157
TR-3R	09/02/09	30.9	ND	ND	ND	ND	ND	ND	61	**2,557**
		NA	NA	NA	NA	NA	NA	NA	NA	NA
TR-4	5/13/02	ND	NA	NA	ND	ND	ND	ND	ND	0
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	**16,000**
	09/10/10	ND	ND	ND	ND	ND	ND	ND	ND	0

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Table 2
Site Wide Groundwater Sampling
Hess Corporation - Port Reading Refinery
750 Cliff Road
Port Reading, New Jersey

		Semi-volatile Organic Compounds										
Sample ID	Date	Pentachlorophenol	4-Chloro-3-methyl phenol	Acetophenone	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene
NJDEP GWQS		0.3	NA	700	400	100	2,000	0.1	0.1	0.2	100	0.5
TC-3	5/13/02	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TF-1	5/13/02	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/09/10	ND	ND	ND	3.45	ND	ND	**1.4**	**0.518**	ND	ND	ND
TF-2	5/13/02	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TF-3	5/13/02	NA	NA	ND	ND	NA	ND	NA	NA	NA	NA	NA
	09/01/09	ND	ND	ND	0.622	ND	ND	ND	ND	ND	ND	ND
	09/09/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TM-1	5/13/02	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	ND	ND	ND	0.108	**0.208**	ND	ND	ND	ND
TM-2	5/13/02	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	ND	ND	ND	0.164	0.22	ND	ND	ND	ND
TM-3	5/13/02	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TM-4	5/13/02	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TM-5	5/13/02	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/10/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TM-6	5/13/02	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA
	09/10/10	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA
TM-7	5/13/02	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	ND	ND	ND	1.1	ND	ND	ND	ND	ND	ND	ND
	09/10/10	ND	ND	ND	0.222	ND	ND	ND	ND	ND	ND	ND
TR-1	5/13/02	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA
		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TR-2	5/13/02	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA
TR-2R	08/31/09	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA
	09/07/10	ND	ND	ND	6.8	ND	3.39	**1.07**	**0.437**	**0.497**	0.184	0.413
TR-3	5/13/02	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA
TR-3R	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA
TR-4	5/13/02	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/10/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

All Data in ug/L unless otherwise noted.
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NA - Not Analyzed

Table 2
Site Wide Groundwater Sampling
Hess Corporation - Port Reading Refinery
750 Cliff Road
Port Reading, New Jersey

		Semi-volatile Organic Compounds										
Sample ID	Date	1,1'-Biphenyl	2,4-Dimethylphenol	Chrysene	2-Methylphenol	3&4-Methylphenol	Phenol	Fluoranthene	2,4,5-Trichlorophenol	Fluorene	2,4,6-Trichlorophenol	Hexachlorobenzene
NJDEP GWQS		400	100	5	NA	NA	2,000	300	700	300	20	0.02
TC-3	5/13/02	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TF-1	5/13/02	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/01/09	ND	ND	1.45	ND	ND	ND	ND	ND	ND	ND	ND
	09/09/10	ND	ND	3.03	ND	ND	ND	0.878	ND	8.7	ND	ND
TF-2	5/13/02	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TF-3	5/13/02	ND	ND	NA	ND	ND	ND	ND	NA	ND	NA	NA
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	0.131	ND	ND
	09/09/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TM-1	5/13/02	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	0.0913	ND	ND	ND	ND	ND	ND	ND	ND
TM-2	5/13/02	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	0.0774	ND	ND	ND	0.208	ND	0.194	ND	ND
TM-3	5/13/02	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TM-4	5/13/02	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TM-5	5/13/02	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/10/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TM-6	5/13/02	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/10/10	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TM-7	5/13/02	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	1.26	ND	ND
	09/10/10	ND	ND	ND	ND	ND	ND	ND	ND	0.423	ND	ND
TR-1	5/13/02	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TR-2	5/13/02	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TR-2R	08/31/09	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/07/10	13	ND	0.653	ND	ND	ND	3.6	ND	9.3	ND	ND
TR-3	5/13/02	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TR-3R	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	0.112	ND	ND
		ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TR-4	5/13/02	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/10/10	0.49	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

All Data in ug/L unless otherwise noted.
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NA - Not Analyzed

Table 2
Site Wide Groundwater Sampling
Hess Corporation - Port Reading Refinery
750 Cliff Road
Port Reading, New Jersey

		Semi-volatile Organic Compounds										
Sample ID	**Date**	**Indeno(1,2,3-cd)pyrene**	**Benzaldehyde**	**Naphthalene**	**Phenanthrene**	**Pyrene**	**Butyl benzyl phthalate**	**4-Chloroaniline**	**Carbazole**	**1,4-Dichlorobenzene**	**1,2-Dichlorobenzene**	**1,3-Dichlorobenzene**
NJDEP GWQS		**0.2**	**NA**	**300**	**100**	**200**	**100**	**30**	**NA**	**75**	**600**	**600**
TC-3	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TF-1	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/01/09	ND	ND	ND	ND	1.31	ND	ND	ND	NA	NA	NA
	09/09/10	ND	ND	ND	8.6	2.81	ND	ND	ND	ND	ND	ND
TF-2	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TF-3	5/13/02	NA	NA	ND	ND	ND	2.6	ND	ND	ND	ND	ND
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
	09/09/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TM-1	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
	09/08/10	ND	ND	ND	0.126	ND	ND	ND	ND	ND	ND	ND
TM-2	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
	09/08/10	ND	ND	ND	0.768	0.183	ND	ND	ND	ND	ND	ND
TM-3	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TM-4	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TM-5	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
	09/10/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TM-6	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/10/10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TM-7	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	ND	ND	ND	ND	ND	ND	ND	0.56	NA	NA	NA
	09/10/10	ND	ND	1.25	0.209	ND	ND	ND	ND	ND	ND	ND
TR-1	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TR-2	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TR-2R	08/31/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/07/10	0.165	ND	**321**	ND	2.86	ND	ND	14.9	ND	ND	ND
TR-3	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TR-3R	09/02/09	ND	ND	0.139	ND	ND	ND	ND	ND	NA	NA	NA
		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TR-4	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	ND	ND	3.42	ND	ND	ND	ND	0.67	NA	NA	NA
	09/10/10	ND	ND	33.7	0.14	ND	ND	ND	ND	ND	ND	ND

All Data in ug/L unless otherwise noted.
ND - Not Detected
NA - Not Analyzed

Table 2
Site Wide Groundwater Sampling
Hess Corporation - Port Reading Refinery
750 Cliff Road
Port Reading, New Jersey

		Semi-volatile Organic Compounds											
Sample ID	Date	3,3'-Dichlorobenzidine	Dibenzofuran	Di-n-butyl phthalate	Di-n-octyl phthalate	Diethyl phthalate	Dimethyl phthalate	bis(2-Ethylhexyl)phthalate	Isophorone	2-Methylnaphthalene	4-Nitroaniline	1,2,4-Trichlorobenzene	Total TIC, Semi-Volatile
NJDEP GWQS		30	NA	NA	100	6,000	NA	3	40	30	NA	9	500
TC-3	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	ND	ND	ND	ND	ND	ND	1.9	ND	ND	ND	NA	0
	09/07/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
TF-1	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/01/09	ND	ND	ND	ND	ND	ND	**3.7**	ND	ND	ND	NA	**616**
	09/09/10	ND	1.5	ND	ND	ND	ND	**15.3**	ND	24.6	ND	ND	**1,078**
TF-2	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TF-3	5/13/02	NA	ND	ND	ND	ND	NA	**4.9**	NA	ND	NA	ND	32.1
	09/01/09	ND	ND	ND	ND	ND	ND	2.9	ND	ND	ND	NA	21
	09/09/10	ND	ND	ND	ND	ND	ND	**46.1**	ND	ND	ND	ND	19
TM-1	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	24.2
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.1
TM-2	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	ND	ND	ND	ND	ND	ND	**94.9**	ND	ND	ND	NA	0
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
TM-3	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	ND	ND	ND	ND	ND	ND	**4.1**	ND	ND	ND	NA	0
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	18
TM-4	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	ND	ND	ND	ND	ND	ND	**4.3**	ND	ND	ND	NA	72.5
	09/08/10	ND	ND	ND	ND	ND	ND	**5.2**	ND	ND	ND	ND	0
TM-5	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	ND	ND	ND	ND	ND	ND	**3.7**	ND	ND	ND	NA	0
	09/10/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	24.3
TM-6	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/10/10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TM-7	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/02/09	ND	ND	ND	ND	ND	ND	1.1	ND	ND	ND	NA	151.3
	09/10/10	ND	ND	ND	ND	ND	ND	1.1	ND	ND	ND	ND	42.6
TR-1	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TR-2	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TR-2R	08/31/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/07/10	ND	4.4	ND	ND	ND	ND	2.1	ND	**211**	ND	ND	**5,274**
TR-3	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TR-3R	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.2	NA	174.3
		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TR-4	5/13/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/31/09	ND	ND	ND	ND	ND	ND	1.2	ND	ND	ND	NA	757
	09/10/10	ND	ND	ND	ND	ND	ND	ND	ND	1.9	ND	ND	**4,206**

All Data in ug/L unless otherwise noted.
ND - Not Detected
NA - Not Analyzed

Appendix A

Well Search for

CASE NAME: Hess Port Reading Refinery

PROGRAM INTEREST (PI) ID # : 006148

SPREADSHEET SUBMISSION DATE: November 22, 2010

No Domestic, Public Supply, Non-public, Industrial, or Irrigation wells were identified.

Appendix B

New Jersey Department of Environmental Protection
Site Remediation Program

POTABLE WELL/INDOOR AIR SAMPLING NOTIFICATION FORM

☒ Non-LSRP (Existing Cases) ☐ LSRP ☐ Subsurface Evaluator

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: Hess Corporation - Port Reading Refinery

List all AKAs:

Street Address: 750 Cliff Road

Municipality: Woodbridge (Township, Borough or City)

County: Middlesex Zip Code: 07077

Mailing Address if different than street address: One Hess Plaza, Woodbridge, NJ

Program Interest (PI) Number(s): 006148 Case Tracking Number(s): See Attachment

SECTION B. NJDEP CASE MANAGER

Do you have an assigned Case Manager? ..... ☒ Yes ☐ No

If "Yes," please list the Case Manager: Phil Cole

SECTION C. POTABLE WELL/INDOOR AIR SAMPLING NOTIFICATION SPREADSHEET

Complete and attach the Potable Well/Indoor Air Sampling Notification Spreadsheet.

SECTION D. PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION

Full Legal Name of the Person Responsible for Conducting the Remediation: Hess Corporation

Representative First Name: Steve Representative Last Name: Freeman

Title: EHS Advisor

Phone Number: (713) 609-5955 Ext: Fax:

Mailing Address: 500 Dallas Street

City/Town: Houston State: Texas Zip Code: 77002

Email Address: sfreeman@hess.com

Developer Certification Included ☐ or Filed Date of Filing

This certification shall be signed by the person responsible for conducting the remediation who is submitting this notification in accordance with Administrative Requirements for the Remediation of Contaminated Sites rule at N.J.A.C. 7:26C-1.5(a).

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature: Date:

Name/Title: Steven Freeman/ EHS Advisor **Changes Since Last Submittal** ☐

SECTION E. NON-LSRP SITE REMEDIATION PROFESSIONAL STATEMENT

First Name: William Last Name: Groeling

Phone Number: (908) 757-1900 Ext: Fax:

Mailing Address: 400E Corporate Court

City/Town: South Plainfield State: NJ Zip Code: 77002

Email Address: billg@envirotrac.com

I believe that the information contained herein, and including all attached documents, is true, accurate and complete.

Signature: Date:

Name/Title: William Groeling/ Senior Project Manager

Company Name: EnviroTrac Ltd.

Submit this form to the assigned case manager. If there is no assigned case manager, submit this form to:

Bureau of Case Assignment & Initial Notice
New Jersey Department of Environmental Protection
Site Remediation Program
401 East State Street, PO Box 434
Trenton, NJ 08625

Potable Well/Indoor Air Sampling Notification Spreadsheet

Case Name:	Hess - Port Reading Refinery				Spreadsheet Revision Date:	11/18/2010			
Case Address:	750 Cliff Road				Program Interest #:	6148			
Case Municipality:	Woodbridge				County:	Middlesex			
LSRP First Name:	William				LSRP Last Name:	Groeling			
LSRP Number:				509880					
Sample Type	Block	Lot	Location Type	Name	Address	Municipality	County	Zip Code	Scheduled Sample Collection Date
Indoor Air	756.02	1	Other	Port Reading Refinery	750 Cliff Road	Woodbridge	Middlesex	7077	11/10/10

New Jersey Department of Environmental Protection
Site Remediation Program

FULL LABORATORY DATA DELIVERABLES FORM

☒ Non-LSRP (Existing Cases) ☐ LSRP ☐ Subsurface Evaluator

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: Hess - Port Reading Refinery

List all AKAs:

Street Address: 750 Cliff Road

Municipality: Woodbridge (Township, Boro or City)

County: Middlesex Zip Code: 07077

Mailing Address if different than street address: One Hess Plaza, Woodbridge, NJ

Program Interest (PI) Number(s): 006148 Case Tracking Number(s): See Attachment

SECTION B. NJDEP CASE MANAGER

Do you have an assigned Case Manager? ☒ Yes ☐ No

If "Yes," please list the Case Manager: Phil Cole

SECTION C. REMEDIAL PHASE

☐ Immediate Environmental Concern
☐ Preliminary Assessment Report
☐ Site Investigation Report
☒ Remedial Investigation/Remedial Action Work Plan
☐ Remedial Action Report
☐ Response Action Outcome

SECTION D. Matrix Type/Analysis and Number of Samples

☐ Potable Well Water # of samples:
Analytical Method(s)

☒ Indoor Air # of samples: 6
Analytical Method TO+15

☐ Polychlorinated dibenzo-p-dioxins/polychlorinated dibenzofurans # of samples:
Analytical Method

☐ Hexavalent chromium soil sample # of samples:
Analytical Method

☐ Other # of samples:
Analytical Method

☐ Other # of samples:
Analytical Method

☐ Other # of samples:
Analytical Method

SECTION E. GENERAL

1. Was a full laboratory data deliverables package provided? ☒ Yes ☐ No
2. Was a certified laboratory(s) used for the analyses? ☒ Yes ☐ No
   Provide name of laboratory(s): Accutest
3. Were data summaries provided for all samples? ☒ Yes ☐ No
4. Were electronic deliverables submitted? ☒ Yes ☐ No
5. For air sample data, were the TO-15 Conversion Tables (hit-lists) provided on disc in the appropriate Excel format pursuant to the VIG? ☒ Yes ☐ No

Section F. Data Quality Assurance/Quality Control

1. Were the appropriate sample preservation requirements met? ☒ Yes ☐ No
2. Were appropriate sample holding times (for both extraction/sample preparation and analysis) met? ☒ Yes ☐ No
   If "No," provide a brief explanation.

3. Were the samples diluted? ☐ Yes ☒ No
   Indicate the identity of the samples and why.

4. If applicable, did sample dilutions result in elevated reporting limits that exceed applicable standards? ☐ Yes ☐ No
   If "Yes," list the affected samples.

5. Were any applicable standards exceeded for any samples? ☐ Yes ☒ No
   If "Yes," include the number of samples and laboratory sample identification numbers.

6. Were the laboratory reporting limits below the applicable remediation standards/criteria required for the site? ☒ Yes ☐ No
   If "No," provide a brief explanation of action taken.

7. Were qualifications noted in the non-conformance summary? ☒ Yes ☐ No
   Provide a brief explanation.

8. Were qualified data used? ☒ Yes ☐ No
9. Were rejections noted in the non-conformance summary? ☐ Yes ☒ No
   Provide a brief explanation.

10. Were rejected data used? ☐ Yes ☒ No

If "Yes," please indicate reasons rejected data were used:

- ☐ For Hex Chrome, data were rejected because spike recovery was less than 50%.
- ☐ Data were rejected due to missing deliverables.
- ☐ Data were rejected but an applicable standard exceedance exists.
- ☐ Data were rejected in an early phase of a remediation; however, additional sampling and analysis are scheduled to be performed.
- ☐ Other reasons not noted directly above. Explain:

11. Were the quality control criteria associated with the compounds of concern at the site met?	☒ Yes	☐ No
12. Were the QC Summary Forms reviewed?	☒ Yes	☐ No
13. Surrogate recoveries acceptable	☒ Yes	☐ No
14. Internal Standards acceptable	☒ Yes	☐ No
15. MS/MSDs acceptable	☒ Yes	☐ No
16. Tune summaries acceptable	☒ Yes	☐ No
17. Calibration summaries acceptable	☒ Yes	☐ No
18. Serial dilutions acceptable	☐ Yes	☐ No
19. Inorganic duplicates acceptable	☐ Yes	☐ No
20. LCS recovery acceptable	☐ Yes	☐ No

21. Other QC acceptable? Provide a brief explanation if applicable:

SECTION G. PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION

Full Legal Name of the Person Responsible for Conducting the Remediation: Hess Corporation

Representative First Name: Steve Representative Last Name: Freeman

Title: EHS Advisor

Phone Number: (713) 609-5955 Ext: Fax:

Mailing Address: 500 Dallas Street

City/Town: Houston State: Texas Zip Code: 77002

Email Address: sfreeman@hess.com

Developer Certification Included ☐ or Filed Date of Filing

This certification shall be signed by the person responsible for conducting the remediation who is submitting this notification in accordance with Administrative Requirements for the Remediation of Contaminated Sites rule at N.J.A.C. 7:26C-1.5(a).

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature: Date:

Name/Title: Steven Freeman/ EHS Advisor **No Changes Since Last Submittal** ☐

SECTION H. NON-LSRP SITE REMEDIATION PROFESSIONAL STATEMENT

First Name: William Last Name: Groeling

Phone Number: (908) 757-1900 Ext: Fax: (908) 757-0017

Mailing Address: 400 E Corporate Court

City/Town: South Plainfield State: NJ Zip Code: 07080

Email Address: billg@envirotrac.com

I believe that the information contained herein, and including all attached documents, is true, accurate and complete.

Signature: Date:

Name/Title: William Groeling/ Senior Project Manager **No Changes Since Last Submittal** ☐

Company Name: EnviroTrac Ltd.

Submit this form to the assigned case manager. If there is no assigned case manager, submit this form to:

Bureau of Case Assignment & Initial Notice
New Jersey Department of Environmental Protection
Site Remediation Program
401 East State Street, PO Box 434
Trenton, NJ 08625

Sample - A1 Conversion Table
Hess - Port Reading Refinery
Administration Building
750 Cliff Road
Port Reading, NJ

Chemical	CAS Number	Molecular Weight	Insert Results in ppbv	Generates Results in ug/m3
Acetone (2-propanone)	67-64-1	58.08	2.2	5.2
Benzene	71-43-2	78.11	ND (0.028)	ND (0.062)
Bromodichloromethane	75-27-4	163.8	0.22	0.7
Bromoethene	593-60-2	106.9	ND (0.025)	ND (0.17)
Bromoform	75-25-2	252.8	ND (0.025)	ND (0.26)
Bromomethane (Methyl bromide)	74-83-9	94.94	ND (0.026)	ND (0.10)
1,3-Butadiene	106-99-0	54.09	ND (0.032)	ND (0.14)
2-Butanone (Methyl ethyl ketone)	78-93-3	72.11	ND (0.034)	ND (0.18)
Carbon disulfide	75-15-0	76.14	ND (0.029)	ND (0.090)
Carbon tetrachloride	56-23-5	153.8	ND (0.031)	ND (0.14)
Chlorobenzene	108-90-7	112.6	ND (0.050)	ND (0.13)
Chloroethane	75-00-3	64.52	ND (0.026)	ND (0.13)
Chloroform	67-66-3	119.4	0.59	1.2
Chloromethane (Methyl chloride)	74-87-3	50.49	ND (0.035)	ND (0.11)
3-Chloropropene (allyl chloride)	107-05-1	76.53	ND (0.032)	ND (0.17)
2-Chlorotoluene (o-Chlorotoluene)	95-49-8	126.6	0.098 J	0.62 J
Cyclohexane	110-82-7	84.16	ND (0.042)	ND (0.14)
Dibromochloromethane	124-48-1	208.3	ND (0.025)	ND (0.10)
1,2-Dibromoethane	106-93-4	187.9	ND (0.024)	ND (0.095)
1,2-Dichlorobenzene	95-50-1	147	ND (0.030)	ND (0.23)
1,3-Dichlorobenzene	541-73-1	147	ND (0.024)	ND (0.097)
1,4-Dichlorobenzene	106-46-7	147	ND (0.054)	ND (0.25)
Dichlorodifluoromethane	75-71-8	120.9	ND (0.040)	ND (0.14)
1,1-Dichloroethane	75-34-3	98.96	0.55	2.7
1,2-Dichloroethane	107-06-2	98.96	ND (0.082)	ND (0.70)
1,1-Dichloroethene	75-35-4	96.94	ND (0.035)	ND (0.14)
1,2-Dichloroethene (cis)	156-59-2	96.94	ND (0.031)	ND (0.12)
1,2-Dichloroethene (trans)	156-60-5	96.94	ND (0.022)	ND (0.10)
1,2-Dichloropropane	78-87-5	113	ND (0.025)	ND (0.15)

Sample - A1 Conversion Table
Hess - Port Reading Refinery
Administration Building
750 Cliff Road
Port Reading, NJ

Chemical	CAS Number	Molecular Weight	Insert Results in ppbv	Generates Results in ug/m3
cis-1,3-Dichloropropene	10061-01-5	111	ND (0.032)	ND (0.19)
trans-1,3-Dichloropropene	10061-02-6	111	ND (0.027)	ND (0.16)
1,2-Dichlorotetrafluoroethane (Freon 114	76-14-2	170.9	ND (0.079)	ND (0.36)
Ethylbenzene	100-41-4	106.2	5.4	10
4-Ethyltoluene (p-Ethyltoluene)	622-96-8	120.2	0.11 J	0.48 J
n-Heptane	142-82-5	100.2	ND (0.077)	ND (0.28)
Hexachlorobutadiene	87-68-3	260.8	ND (0.024)	ND (0.12)
n-Hexane	110-54-3	86.17	ND (0.026)	ND (0.20)
Methylene chloride	75-09-2	84.94	ND (0.029)	ND (0.20)
4-Methyl-2-pentanone (MIBK)	108-10-1	100.2	0.19 J	0.78 J
MTBE (Methyl tert-butyl ether)	1634-04-4	88.15	ND (0.060)	ND (0.64)
Styrene	100-42-5	104.1	0.29	1
Tertiary butyl alcohol (TBA)	75-65-0	74.12	ND (0.043)	ND (0.18)
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.45	1.1
Tetrachloroethene (PCE)	127-18-4	165.8	0.39	1.4
Toluene	108-88-3	92.14	0.86	2.5
1,2,4-Trichlorobenzene	120-82-1	181.5	ND (0.037)	ND (0.15)
1,1,1-Trichloroethane	71-55-6	133.4	ND (0.043)	ND (0.16)
1,1,2-Trichloroethane	79-00-5	133.4	0.72	1.2
1,1,2-Trichloro-1,2,2-trifluoroethane (F	76-13-1	187.4	ND (0.027)	ND (0.11)
Trichloroethene (TCE)	79-01-6	131.4	0.10 J	0.55 J
Trichlorofluoromethane (Freon 11)	75-69-4	137.4	ND (0.025)	ND (0.17)
1,2,4-Trimethylbenzene	95-63-6	120.2	ND (0.024)	ND (0.13)
1,3,5-Trimethylbenzene	108-67-8	120.2	ND (0.12)	ND (0.89)
2,2,4-Trimethylpentane	540-84-1	114.2	0.21	1
Vinyl chloride	75-01-4	62.5	ND (0.027)	ND (0.13)
Xylenes (m&p)	1330-20-7	106.2	0.2	0.93
Xylenes (o)	95-47-6	106.2	ND (0.039)	ND (0.12)
Benzyl Chloride	100-44-7	126	ND (0.040)	ND (0.27)
1,4-Dioxane	123-91-1	88.12	ND (0.057)	ND (0.17)
Ethanol	64-17-5	46.07	0.63	2.4
Ethyl Acetate	141-78-6	88	ND (0.024)	ND (0.13)
2-Hexanone	591-78-6	100	0.3	1.7
Isopropyl Alcohol	67-63-0	60.1	ND (0.029)	ND (0.074)
Propylene	115-07-1	42	ND (0.13)	ND (0.46)
Tetrahydrofuran	109-99-9	72.11	0.43	1.9
Vinyl Acetate	108-05-4	86	0.16 J	0.69 J
Xylenes (total)	1330-20-7	106.2	0.59	2.6

Sample - A2 Conversion Table
Hess - Port Reading Refinery
Administration Building
750 Cliff Road
Port Reading, NJ

Chemical	CAS Number	Molecular Weight	Insert Results in ppbv	Generates Results in ug/m3
Acetone (2-propanone)	67-64-1	58.08	3.3	7.8
Benzene	71-43-2	78.11	ND (0.028)	ND (0.062)
Bromodichloromethane	75-27-4	163.8	0.36	1.2
Bromoethene	593-60-2	106.9	ND (0.025)	ND (0.17)
Bromoform	75-25-2	252.8	ND (0.025)	ND (0.26)
Bromomethane (Methyl bromide)	74-83-9	94.94	ND (0.026)	ND (0.10)
1,3-Butadiene	106-99-0	54.09	ND (0.032)	ND (0.14)
2-Butanone (Methyl ethyl ketone)	78-93-3	72.11	ND (0.034)	ND (0.18)
Carbon disulfide	75-15-0	76.14	ND (0.029)	ND (0.090)
Carbon tetrachloride	56-23-5	153.8	ND (0.031)	ND (0.14)
Chlorobenzene	108-90-7	112.6	ND (0.050)	ND (0.13)
Chloroethane	75-00-3	64.52	ND (0.026)	ND (0.13)
Chloroform	67-66-3	119.4	0.6	1.2
Chloromethane (Methyl chloride)	74-87-3	50.49	ND (0.035)	ND (0.11)
3-Chloropropene (allyl chloride)	107-05-1	76.53	ND (0.032)	ND (0.17)
2-Chlorotoluene (o-Chlorotoluene)	95-49-8	126.6	0.10 J	0.63 J
Cyclohexane	110-82-7	84.16	ND (0.042)	ND (0.14)
Dibromochloromethane	124-48-1	208.3	ND (0.025)	ND (0.10)
1,2-Dibromoethane	106-93-4	187.9	ND (0.024)	ND (0.095)
1,2-Dichlorobenzene	95-50-1	147	ND (0.030)	ND (0.23)
1,3-Dichlorobenzene	541-73-1	147	ND (0.024)	ND (0.097)
1,4-Dichlorobenzene	106-46-7	147	ND (0.054)	ND (0.25)
Dichlorodifluoromethane	75-71-8	120.9	ND (0.040)	ND (0.14)
1,1-Dichloroethane	75-34-3	98.96	0.54	2.7
1,2-Dichloroethane	107-06-2	98.96	ND (0.082)	ND (0.70)
1,1-Dichloroethene	75-35-4	96.94	ND (0.035)	ND (0.14)
1,2-Dichloroethene (cis)	156-59-2	96.94	ND (0.031)	ND (0.12)
1,2-Dichloroethene (trans)	156-60-5	96.94	ND (0.022)	ND (0.10)
1,2-Dichloropropane	78-87-5	113	ND (0.025)	ND (0.15)

Sample - A2 Conversion Table
Hess - Port Reading Refinery
Administration Building
750 Cliff Road
Port Reading, NJ

Chemical	CAS Number	Molecular Weight	Insert Results in ppbv	Generates Results in ug/m3
cis-1,3-Dichloropropene	10061-01-5	111	ND (0.032)	ND (0.19)
trans-1,3-Dichloropropene	10061-02-6	111	ND (0.027)	ND (0.16)
1,2-Dichlorotetrafluoroethane (Freon 114	76-14-2	170.9	ND (0.079)	ND (0.36)
Ethylbenzene	100-41-4	106.2	4.5	8.5
4-Ethyltoluene (p-Ethyltoluene)	622-96-8	120.2	0.13 J	0.56 J
n-Heptane	142-82-5	100.2	ND (0.077)	ND (0.28)
Hexachlorobutadiene	87-68-3	260.8	ND (0.024)	ND (0.12)
n-Hexane	110-54-3	86.17	ND (0.026)	ND (0.20)
Methylene chloride	75-09-2	84.94	ND (0.029)	ND (0.20)
4-Methyl-2-pentanone (MIBK)	108-10-1	100.2	0.21	0.86
MTBE (Methyl tert-butyl ether)	1634-04-4	88.15	ND (0.060)	ND (0.64)
Styrene	100-42-5	104.1	0.27	0.95
Tertiary butyl alcohol (TBA)	75-65-0	74.12	ND (0.043)	ND (0.18)
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.5	1.2
Tetrachloroethene (PCE)	127-18-4	165.8	0.31	1.1
Toluene	108-88-3	92.14	1.7	5
1,2,4-Trichlorobenzene	120-82-1	181.5	ND (0.037)	ND (0.15)
1,1,1-Trichloroethane	71-55-6	133.4	ND (0.043)	ND (0.16)
1,1,2-Trichloroethane	79-00-5	133.4	ND (0.096)	ND (0.16)
1,1,2-Trichloro-1,2,2-trifluoroethane (F	76-13-1	187.4	ND (0.027)	ND (0.11)
Trichloroethene (TCE)	79-01-6	131.4	ND (0.024)	ND (0.13)
Trichlorofluoromethane (Freon 11)	75-69-4	137.4	ND (0.025)	ND (0.17)
1,2,4-Trimethylbenzene	95-63-6	120.2	ND (0.024)	ND (0.13)
1,3,5-Trimethylbenzene	108-67-8	120.2	ND (0.12)	ND (0.89)
2,2,4-Trimethylpentane	540-84-1	114.2	0.26	1.3
Vinyl chloride	75-01-4	62.5	ND (0.027)	ND (0.13)
Xylenes (m&p)	1330-20-7	106.2	0.86	4
Xylenes (o)	95-47-6	106.2	ND (0.039)	ND (0.12)
Benzyl Chloride	100-44-7	126	ND (0.040)	ND (0.27)
1,4-Dioxane	123-91-1	88.12	0.13 J	0.38 J
Ethanol	64-17-5	46.07	0.65	2.4
Ethyl Acetate	141-78-6	88	ND (0.024)	ND (0.13)
2-Hexanone	591-78-6	100	0.28	1.6
Isopropyl Alcohol	67-63-0	60.1	ND (0.029)	ND (0.074)
Propylene	115-07-1	42	ND (0.13)	ND (0.46)
Tetrahydrofuran	109-99-9	72.11	0.54	2.3
Vinyl Acetate	108-05-4	86	0.17 J	0.74 J
Xylenes (total)	1330-20-7	106.2	0.71	3.1

Sample - A3 Conversion Table
Hess - Port Reading Refinery
Administration Building
750 Cliff Road
Port Reading, NJ

Chemical	CAS Number	Molecular Weight	Insert Results in ppbv	Generates Results in ug/m3
Acetone (2-propanone)	67-64-1	58.08	3	7.1
Benzene	71-43-2	78.11	ND (0.028)	ND (0.062)
Bromodichloromethane	75-27-4	163.8	0.21	0.67
Bromoethene	593-60-2	106.9	ND (0.025)	ND (0.17)
Bromoform	75-25-2	252.8	ND (0.025)	ND (0.26)
Bromomethane (Methyl bromide)	74-83-9	94.94	ND (0.026)	ND (0.10)
1,3-Butadiene	106-99-0	54.09	ND (0.032)	ND (0.14)
2-Butanone (Methyl ethyl ketone)	78-93-3	72.11	ND (0.034)	ND (0.18)
Carbon disulfide	75-15-0	76.14	ND (0.029)	ND (0.090)
Carbon tetrachloride	56-23-5	153.8	ND (0.031)	ND (0.14)
Chlorobenzene	108-90-7	112.6	ND (0.050)	ND (0.13)
Chloroethane	75-00-3	64.52	ND (0.026)	ND (0.13)
Chloroform	67-66-3	119.4	0.66	1.4
Chloromethane (Methyl chloride)	74-87-3	50.49	ND (0.035)	ND (0.11)
3-Chloropropene (allyl chloride)	107-05-1	76.53	ND (0.032)	ND (0.17)
2-Chlorotoluene (o-Chlorotoluene)	95-49-8	126.6	ND (0.023)	ND (0.14)
Cyclohexane	110-82-7	84.16	ND (0.042)	ND (0.14)
Dibromochloromethane	124-48-1	208.3	ND (0.025)	ND (0.10)
1,2-Dibromoethane	106-93-4	187.9	ND (0.024)	ND (0.095)
1,2-Dichlorobenzene	95-50-1	147	ND (0.030)	ND (0.23)
1,3-Dichlorobenzene	541-73-1	147	ND (0.024)	ND (0.097)
1,4-Dichlorobenzene	106-46-7	147	ND (0.054)	ND (0.25)
Dichlorodifluoromethane	75-71-8	120.9	ND (0.040)	ND (0.14)
1,1-Dichloroethane	75-34-3	98.96	0.56	2.8
1,2-Dichloroethane	107-06-2	98.96	ND (0.082)	ND (0.70)
1,1-Dichloroethene	75-35-4	96.94	ND (0.035)	ND (0.14)
1,2-Dichloroethene (cis)	156-59-2	96.94	ND (0.031)	ND (0.12)
1,2-Dichloroethene (trans)	156-60-5	96.94	ND (0.022)	ND (0.10)
1,2-Dichloropropane	78-87-5	113	ND (0.025)	ND (0.15)

Sample - A3 Conversion Table
Hess - Port Reading Refinery
Administration Building
750 Cliff Road
Port Reading, NJ

Chemical	CAS Number	Molecular Weight	Insert Results in ppbv	Generates Results in ug/m3
cis-1,3-Dichloropropene	10061-01-5	111	ND (0.032)	ND (0.19)
trans-1,3-Dichloropropene	10061-02-6	111	ND (0.027)	ND (0.16)
1,2-Dichlorotetrafluoroethane (Freon 114	76-14-2	170.9	ND (0.079)	ND (0.36)
Ethylbenzene	100-41-4	106.2	4.1	7.7
4-Ethyltoluene (p-Ethyltoluene)	622-96-8	120.2	ND (0.027)	ND (0.12)
n-Heptane	142-82-5	100.2	ND (0.077)	ND (0.28)
Hexachlorobutadiene	87-68-3	260.8	ND (0.024)	ND (0.12)
n-Hexane	110-54-3	86.17	ND (0.026)	ND (0.20)
Methylene chloride	75-09-2	84.94	ND (0.029)	ND (0.20)
4-Methyl-2-pentanone (MIBK)	108-10-1	100.2	0.17 J	0.70 J
MTBE (Methyl tert-butyl ether)	1634-04-4	88.15	ND (0.060)	ND (0.64)
Styrene	100-42-5	104.1	0.23	0.81
Tertiary butyl alcohol (TBA)	75-65-0	74.12	ND (0.043)	ND (0.18)
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.38	0.93
Tetrachloroethene (PCE)	127-18-4	165.8	0.31	1.1
Toluene	108-88-3	92.14	0.62	1.8
1,2,4-Trichlorobenzene	120-82-1	181.5	ND (0.037)	ND (0.15)
1,1,1-Trichloroethane	71-55-6	133.4	ND (0.043)	ND (0.16)
1,1,2-Trichloroethane	79-00-5	133.4	ND (0.096)	ND (0.16)
1,1,2-Trichloro-1,2,2-trifluoroethane (F	76-13-1	187.4	ND (0.027)	ND (0.11)
Trichloroethene (TCE)	79-01-6	131.4	ND (0.024)	ND (0.13)
Trichlorofluoromethane (Freon 11)	75-69-4	137.4	ND (0.025)	ND (0.17)
1,2,4-Trimethylbenzene	95-63-6	120.2	ND (0.024)	ND (0.13)
1,3,5-Trimethylbenzene	108-67-8	120.2	ND (0.12)	ND (0.89)
2,2,4-Trimethylpentane	540-84-1	114.2	0.11 J	0.54 J
Vinyl chloride	75-01-4	62.5	ND (0.027)	ND (0.13)
Xylenes (m&p)	1330-20-7	106.2	ND (0.021)	ND (0.098)
Xylenes (o)	95-47-6	106.2	ND (0.039)	ND (0.12)
Benzyl Chloride	100-44-7	126	ND (0.040)	ND (0.27)
1,4-Dioxane	123-91-1	88.12	ND (0.057)	ND (0.17)
Ethanol	64-17-5	46.07	0.57	2.1
Ethyl Acetate	141-78-6	88	ND (0.024)	ND (0.13)
2-Hexanone	591-78-6	100	0.27	1.5
Isopropyl Alcohol	67-63-0	60.1	ND (0.029)	ND (0.074)
Propylene	115-07-1	42	ND (0.13)	ND (0.46)
Tetrahydrofuran	109-99-9	72.11	0.27	1.2
Vinyl Acetate	108-05-4	86	ND (0.026)	ND (0.11)
Xylenes (total)	1330-20-7	106.2	0.27	1.2

Sample - A4 Conversion Table
Hess - Port Reading Refinery
Administration Building
750 Cliff Road
Port Reading, NJ

Chemical	CAS Number	Molecular Weight	Insert Results in ppbv	Generates Results in ug/m3
Acetone (2-propanone)	67-64-1	58.08	2.1	5
Benzene	71-43-2	78.11	ND (0.028)	ND (0.062)
Bromodichloromethane	75-27-4	163.8	0.22	0.7
Bromoethene	593-60-2	106.9	ND (0.025)	ND (0.17)
Bromoform	75-25-2	252.8	ND (0.025)	ND (0.26)
Bromomethane (Methyl bromide)	74-83-9	94.94	ND (0.026)	ND (0.10)
1,3-Butadiene	106-99-0	54.09	ND (0.032)	ND (0.14)
2-Butanone (Methyl ethyl ketone)	78-93-3	72.11	ND (0.034)	ND (0.18)
Carbon disulfide	75-15-0	76.14	ND (0.029)	ND (0.090)
Carbon tetrachloride	56-23-5	153.8	ND (0.031)	ND (0.14)
Chlorobenzene	108-90-7	112.6	ND (0.050)	ND (0.13)
Chloroethane	75-00-3	64.52	ND (0.026)	ND (0.13)
Chloroform	67-66-3	119.4	0.62	1.3
Chloromethane (Methyl chloride)	74-87-3	50.49	ND (0.035)	ND (0.11)
3-Chloropropene (allyl chloride)	107-05-1	76.53	ND (0.032)	ND (0.17)
2-Chlorotoluene (o-Chlorotoluene)	95-49-8	126.6	0.10 J	0.63 J
Cyclohexane	110-82-7	84.16	ND (0.042)	ND (0.14)
Dibromochloromethane	124-48-1	208.3	ND (0.025)	ND (0.10)
1,2-Dibromoethane	106-93-4	187.9	ND (0.024)	ND (0.095)
1,2-Dichlorobenzene	95-50-1	147	ND (0.030)	ND (0.23)
1,3-Dichlorobenzene	541-73-1	147	ND (0.024)	ND (0.097)
1,4-Dichlorobenzene	106-46-7	147	ND (0.054)	ND (0.25)
Dichlorodifluoromethane	75-71-8	120.9	ND (0.040)	ND (0.14)
1,1-Dichloroethane	75-34-3	98.96	0.58	2.9
1,2-Dichloroethane	107-06-2	98.96	ND (0.082)	ND (0.70)
1,1-Dichloroethene	75-35-4	96.94	ND (0.035)	ND (0.14)
1,2-Dichloroethene (cis)	156-59-2	96.94	ND (0.031)	ND (0.12)
1,2-Dichloroethene (trans)	156-60-5	96.94	ND (0.022)	ND (0.10)
1,2-Dichloropropane	78-87-5	113	ND (0.025)	ND (0.15)

Sample - A4 Conversion Table
Hess - Port Reading Refinery
Administration Building
750 Cliff Road
Port Reading, NJ

Chemical	CAS Number	Molecular Weight	Insert Results in ppbv	Generates Results in ug/m3
cis-1,3-Dichloropropene	10061-01-5	111	ND (0.032)	ND (0.19)
trans-1,3-Dichloropropene	10061-02-6	111	ND (0.027)	ND (0.16)
1,2-Dichlorotetrafluoroethane (Freon 114	76-14-2	170.9	ND (0.079)	ND (0.36)
Ethylbenzene	100-41-4	106.2	4.5	8.5
4-Ethyltoluene (p-Ethyltoluene)	622-96-8	120.2	ND (0.027)	ND (0.12)
n-Heptane	142-82-5	100.2	ND (0.077)	ND (0.28)
Hexachlorobutadiene	87-68-3	260.8	ND (0.024)	ND (0.12)
n-Hexane	110-54-3	86.17	ND (0.026)	ND (0.20)
Methylene chloride	75-09-2	84.94	ND (0.029)	ND (0.20)
4-Methyl-2-pentanone (MIBK)	108-10-1	100.2	0.17 J	0.70 J
MTBE (Methyl tert-butyl ether)	1634-04-4	88.15	ND (0.060)	ND (0.64)
Styrene	100-42-5	104.1	0.25	0.88
Tertiary butyl alcohol (TBA)	75-65-0	74.12	ND (0.043)	ND (0.18)
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.34	0.84
Tetrachloroethene (PCE)	127-18-4	165.8	0.38	1.3
Toluene	108-88-3	92.14	0.6	1.8
1,2,4-Trichlorobenzene	120-82-1	181.5	ND (0.037)	ND (0.15)
1,1,1-Trichloroethane	71-55-6	133.4	ND (0.043)	ND (0.16)
1,1,2-Trichloroethane	79-00-5	133.4	ND (0.096)	ND (0.16)
1,1,2-Trichloro-1,2,2-trifluoroethane (F	76-13-1	187.4	ND (0.027)	ND (0.11)
Trichloroethene (TCE)	79-01-6	131.4	ND (0.024)	ND (0.13)
Trichlorofluoromethane (Freon 11)	75-69-4	137.4	ND (0.025)	ND (0.17)
1,2,4-Trimethylbenzene	95-63-6	120.2	ND (0.024)	ND (0.13)
1,3,5-Trimethylbenzene	108-67-8	120.2	ND (0.12)	ND (0.89)
2,2,4-Trimethylpentane	540-84-1	114.2	0.11 J	0.54 J
Vinyl chloride	75-01-4	62.5	ND (0.027)	ND (0.13)
Xylenes (m&p)	1330-20-7	106.2	ND (0.021)	ND (0.098)
Xylenes (o)	95-47-6	106.2	ND (0.039)	ND (0.12)
Benzyl Chloride	100-44-7	126	ND (0.040)	ND (0.27)
1,4-Dioxane	123-91-1	88.12	ND (0.057)	ND (0.17)
Ethanol	64-17-5	46.07	0.55	2.1
Ethyl Acetate	141-78-6	88	ND (0.024)	ND (0.13)
2-Hexanone	591-78-6	100	0.29	1.6
Isopropyl Alcohol	67-63-0	60.1	ND (0.029)	ND (0.074)
Propylene	115-07-1	42	ND (0.13)	ND (0.46)
Tetrahydrofuran	109-99-9	72.11	0.26	1.1
Vinyl Acetate	108-05-4	86	ND (0.026)	ND (0.11)
Xylenes (total)	1330-20-7	106.2	0.26	1.1

Sample - A5 Conversion Table
Hess - Port Reading Refinery
Administration Building
750 Cliff Road
Port Reading, NJ

Chemical	CAS Number	Molecular Weight	Insert Results in ppbv	Generates Results in ug/m3
Acetone (2-propanone)	67-64-1	58.08	5.1	12
Benzene	71-43-2	78.11	ND (0.028)	ND (0.062)
Bromodichloromethane	75-27-4	163.8	0.23	0.73
Bromoethene	593-60-2	106.9	ND (0.025)	ND (0.17)
Bromoform	75-25-2	252.8	ND (0.025)	ND (0.26)
Bromomethane (Methyl bromide)	74-83-9	94.94	ND (0.026)	ND (0.10)
1,3-Butadiene	106-99-0	54.09	ND (0.032)	ND (0.14)
2-Butanone (Methyl ethyl ketone)	78-93-3	72.11	ND (0.034)	ND (0.18)
Carbon disulfide	75-15-0	76.14	ND (0.029)	ND (0.090)
Carbon tetrachloride	56-23-5	153.8	ND (0.031)	ND (0.14)
Chlorobenzene	108-90-7	112.6	ND (0.050)	ND (0.13)
Chloroethane	75-00-3	64.52	ND (0.026)	ND (0.13)
Chloroform	67-66-3	119.4	0.66	1.4
Chloromethane (Methyl chloride)	74-87-3	50.49	ND (0.035)	ND (0.11)
3-Chloropropene (allyl chloride)	107-05-1	76.53	ND (0.032)	ND (0.17)
2-Chlorotoluene (o-Chlorotoluene)	95-49-8	126.6	ND (0.023)	ND (0.14)
Cyclohexane	110-82-7	84.16	0.12 J	0.41 J
Dibromochloromethane	124-48-1	208.3	ND (0.025)	ND (0.10)
1,2-Dibromoethane	106-93-4	187.9	ND (0.024)	ND (0.095)
1,2-Dichlorobenzene	95-50-1	147	ND (0.030)	ND (0.23)
1,3-Dichlorobenzene	541-73-1	147	ND (0.024)	ND (0.097)
1,4-Dichlorobenzene	106-46-7	147	ND (0.054)	ND (0.25)
Dichlorodifluoromethane	75-71-8	120.9	ND (0.040)	ND (0.14)
1,1-Dichloroethane	75-34-3	98.96	0.56	2.8
1,2-Dichloroethane	107-06-2	98.96	ND (0.082)	ND (0.70)
1,1-Dichloroethene	75-35-4	96.94	ND (0.035)	ND (0.14)
1,2-Dichloroethene (cis)	156-59-2	96.94	ND (0.031)	ND (0.12)
1,2-Dichloroethene (trans)	156-60-5	96.94	ND (0.022)	ND (0.10)
1,2-Dichloropropane	78-87-5	113	ND (0.025)	ND (0.15)

Sample - A5 Conversion Table
Hess - Port Reading Refinery
Administration Building
750 Cliff Road
Port Reading, NJ

Chemical	CAS Number	Molecular Weight	Insert Results in ppbv	Generates Results in ug/m3
cis-1,3-Dichloropropene	10061-01-5	111	ND (0.032)	ND (0.19)
trans-1,3-Dichloropropene	10061-02-6	111	ND (0.027)	ND (0.16)
1,2-Dichlorotetrafluoroethane (Freon 114	76-14-2	170.9	ND (0.079)	ND (0.36)
Ethylbenzene	100-41-4	106.2	42.0 E	79.1 E
4-Ethyltoluene (p-Ethyltoluene)	622-96-8	120.2	0.13 J	0.56 J
n-Heptane	142-82-5	100.2	0.37	1.3
Hexachlorobutadiene	87-68-3	260.8	ND (0.024)	ND (0.12)
n-Hexane	110-54-3	86.17	ND (0.026)	ND (0.20)
Methylene chloride	75-09-2	84.94	ND (0.029)	ND (0.20)
4-Methyl-2-pentanone (MIBK)	108-10-1	100.2	0.25	1
MTBE (Methyl tert-butyl ether)	1634-04-4	88.15	ND (0.060)	ND (0.64)
Styrene	100-42-5	104.1	0.27	0.95
Tertiary butyl alcohol (TBA)	75-65-0	74.12	ND (0.043)	ND (0.18)
1,1,2,2-Tetrachloroethane	79-34-5	167.9	18.4	45.2
Tetrachloroethene (PCE)	127-18-4	165.8	0.41	1.4
Toluene	108-88-3	92.14	1.1	3.2
1,2,4-Trichlorobenzene	120-82-1	181.5	ND (0.037)	ND (0.15)
1,1,1-Trichloroethane	71-55-6	133.4	ND (0.043)	ND (0.16)
1,1,2-Trichloroethane	79-00-5	133.4	ND (0.096)	ND (0.16)
1,1,2-Trichloro-1,2,2-trifluoroethane (F	76-13-1	187.4	ND (0.027)	ND (0.11)
Trichloroethene (TCE)	79-01-6	131.4	ND (0.024)	ND (0.13)
Trichlorofluoromethane (Freon 11)	75-69-4	137.4	ND (0.025)	ND (0.17)
1,2,4-Trimethylbenzene	95-63-6	120.2	ND (0.024)	ND (0.13)
1,3,5-Trimethylbenzene	108-67-8	120.2	ND (0.12)	ND (0.89)
2,2,4-Trimethylpentane	540-84-1	114.2	0.18 J	0.88 J
Vinyl chloride	75-01-4	62.5	ND (0.027)	ND (0.13)
Xylenes (m&p)	1330-20-7	106.2	0.11 J	0.51 J
Xylenes (o)	95-47-6	106.2	ND (0.039)	ND (0.12)
Benzyl Chloride	100-44-7	126	ND (0.040)	ND (0.27)
1,4-Dioxane	123-91-1	88.12	ND (0.057)	ND (0.17)
Ethanol	64-17-5	46.07	0.88	3.3
Ethyl Acetate	141-78-6	88	ND (0.024)	ND (0.13)
2-Hexanone	591-78-6	100	0.32	1.8
Isopropyl Alcohol	67-63-0	60.1	ND (0.029)	ND (0.074)
Propylene	115-07-1	42	ND (0.13)	ND (0.46)
Tetrahydrofuran	109-99-9	72.11	0.41	1.8
Vinyl Acetate	108-05-4	86	0.15 J	0.65 J
Xylenes (total)	1330-20-7	106.2	0.56	2.4

Sample - A6 Conversion Table
Hess - Port Reading Refinery
Administration Building
750 Cliff Road
Port Reading, NJ

Chemical	CAS Number	Molecular Weight	Insert Results in ppbv	Generates Results in ug/m3
Acetone (2-propanone)	67-64-1	58.08	6	14
Benzene	71-43-2	78.11	ND (0.028)	ND (0.062)
Bromodichloromethane	75-27-4	163.8	0.21	0.67
Bromoethene	593-60-2	106.9	ND (0.025)	ND (0.17)
Bromoform	75-25-2	252.8	ND (0.025)	ND (0.26)
Bromomethane (Methyl bromide)	74-83-9	94.94	ND (0.026)	ND (0.10)
1,3-Butadiene	106-99-0	54.09	ND (0.032)	ND (0.14)
2-Butanone (Methyl ethyl ketone)	78-93-3	72.11	ND (0.034)	ND (0.18)
Carbon disulfide	75-15-0	76.14	ND (0.029)	ND (0.090)
Carbon tetrachloride	56-23-5	153.8	ND (0.031)	ND (0.14)
Chlorobenzene	108-90-7	112.6	ND (0.050)	ND (0.13)
Chloroethane	75-00-3	64.52	ND (0.026)	ND (0.13)
Chloroform	67-66-3	119.4	0.67	1.4
Chloromethane (Methyl chloride)	74-87-3	50.49	ND (0.035)	ND (0.11)
3-Chloropropene (allyl chloride)	107-05-1	76.53	ND (0.032)	ND (0.17)
2-Chlorotoluene (o-Chlorotoluene)	95-49-8	126.6	0.097 J	0.61 J
Cyclohexane	110-82-7	84.16	ND (0.042)	ND (0.14)
Dibromochloromethane	124-48-1	208.3	ND (0.025)	ND (0.10)
1,2-Dibromoethane	106-93-4	187.9	ND (0.024)	ND (0.095)
1,2-Dichlorobenzene	95-50-1	147	ND (0.030)	ND (0.23)
1,3-Dichlorobenzene	541-73-1	147	ND (0.024)	ND (0.097)
1,4-Dichlorobenzene	106-46-7	147	ND (0.054)	ND (0.25)
Dichlorodifluoromethane	75-71-8	120.9	ND (0.040)	ND (0.14)
1,1-Dichloroethane	75-34-3	98.96	0.6	3
1,2-Dichloroethane	107-06-2	98.96	ND (0.082)	ND (0.70)
1,1-Dichloroethene	75-35-4	96.94	ND (0.035)	ND (0.14)
1,2-Dichloroethene (cis)	156-59-2	96.94	ND (0.031)	ND (0.12)
1,2-Dichloroethene (trans)	156-60-5	96.94	ND (0.022)	ND (0.10)
1,2-Dichloropropane	78-87-5	113	ND (0.025)	ND (0.15)

Sample - A6 Conversion Table
Hess - Port Reading Refinery
Administration Building
750 Cliff Road
Port Reading, NJ

Chemical	CAS Number	Molecular Weight	Insert Results in ppbv	Generates Results in ug/m3
cis-1,3-Dichloropropene	10061-01-5	111	ND (0.032)	ND (0.19)
trans-1,3-Dichloropropene	10061-02-6	111	ND (0.027)	ND (0.16)
1,2-Dichlorotetrafluoroethane (Freon 114	76-14-2	170.9	ND (0.079)	ND (0.36)
Ethylbenzene	100-41-4	106.2	52.0 E	98.0 E
4-Ethyltoluene (p-Ethyltoluene)	622-96-8	120.2	0.11 J	0.48 J
n-Heptane	142-82-5	100.2	0.51	1.8
Hexachlorobutadiene	87-68-3	260.8	ND (0.024)	ND (0.12)
n-Hexane	110-54-3	86.17	ND (0.026)	ND (0.20)
Methylene chloride	75-09-2	84.94	ND (0.029)	ND (0.20)
4-Methyl-2-pentanone (MIBK)	108-10-1	100.2	0.25	1
MTBE (Methyl tert-butyl ether)	1634-04-4	88.15	ND (0.060)	ND (0.64)
Styrene	100-42-5	104.1	0.25	0.88
Tertiary butyl alcohol (TBA)	75-65-0	74.12	ND (0.043)	ND (0.18)
1,1,2,2-Tetrachloroethane	79-34-5	167.9	44.8 E	110 E
Tetrachloroethene (PCE)	127-18-4	165.8	0.37	1.3
Toluene	108-88-3	92.14	0.87	2.6
1,2,4-Trichlorobenzene	120-82-1	181.5	ND (0.037)	ND (0.15)
1,1,1-Trichloroethane	71-55-6	133.4	ND (0.043)	ND (0.16)
1,1,2-Trichloroethane	79-00-5	133.4	ND (0.096)	ND (0.16)
1,1,2-Trichloro-1,2,2-trifluoroethane (F	76-13-1	187.4	ND (0.027)	ND (0.11)
Trichloroethene (TCE)	79-01-6	131.4	ND (0.024)	ND (0.13)
Trichlorofluoromethane (Freon 11)	75-69-4	137.4	ND (0.025)	ND (0.17)
1,2,4-Trimethylbenzene	95-63-6	120.2	ND (0.024)	ND (0.13)
1,3,5-Trimethylbenzene	108-67-8	120.2	ND (0.12)	ND (0.89)
2,2,4-Trimethylpentane	540-84-1	114.2	0.15 J	0.74 J
Vinyl chloride	75-01-4	62.5	ND (0.027)	ND (0.13)
Xylenes (m&p)	1330-20-7	106.2	0.11 J	0.51 J
Xylenes (o)	95-47-6	106.2	ND (0.039)	ND (0.12)
Benzyl Chloride	100-44-7	126	ND (0.040)	ND (0.27)
1,4-Dioxane	123-91-1	88.12	ND (0.057)	ND (0.17)
Ethanol	64-17-5	46.07	0.81	3.1
Ethyl Acetate	141-78-6	88	ND (0.024)	ND (0.13)
2-Hexanone	591-78-6	100	0.31	1.7
Isopropyl Alcohol	67-63-0	60.1	ND (0.029)	ND (0.074)
Propylene	115-07-1	42	ND (0.13)	ND (0.46)
Tetrahydrofuran	109-99-9	72.11	0.36	1.6
Vinyl Acetate	108-05-4	86	0.12 J	0.52 J
Xylenes (total)	1330-20-7	106.2	0.48	2.1